The Periodic Table A Very Short Introduction

#periodic table explained #chemical elements guide #atomic structure basics #element properties trends #introduction to chemistry

Discover the fundamental principles of the periodic table with this concise introduction to chemistry. Explore the organization and essential properties of elements, understanding how atomic structure dictates their behavior. This guide offers a clear, accessible explanation for anyone seeking to grasp the basics of all chemical elements.

The Periodic Table A Very Short Introduction

The Periodic Table: A Very Short Introduction by Eric R. Scerri · Audiobook preview - The Periodic Table: A Very Short Introduction by Eric R. Scerri · Audiobook preview by Google Play Books 48 views 1 month ago 25 minutes - The **Periodic Table**,: A **Very Short Introduction**, Authored by Eric R. Scerri Narrated by Eric Scerri #ericrscerri ...
The Periodic Table: Crash Course Chemistry #4 - The Periodic Table: Crash Course Chemistry #4 by CrashCourse 7,443,044 views 11 years ago 11 minutes, 22 seconds - Hank gives us a tour of the most important **table**, ever, including the life story of the obsessive man who championed it, Dmitri ...
Dmitri Mendeleev
Mendeleev's Organization of the Periodic Table
Relationships in the Periodic Table
Why Mendeleev Stood Out from his Colleagues
How the Periodic Table Could be Improved
Periodic Table Explained: Introduction - Periodic Table Explained: Introduction by AtomicSchool 4,750,625 views 9 years ago 14 minutes, 14 seconds - Introduction, video on the **periodic table**, being explained to chemistry school & science students . The video explains how there ...
Hydrogen
Atomic Number
Artificial Elements
What Is a Metal
Metallic Properties
Nonmetals
Osmium
Semi Metals
Metal or Nonmetal Elements Metals
The Periodic Table first 20 elements - The Periodic Table first 20 elements by Cricket Nick 570,255 views 7 years ago 24 seconds - The **Periodic Table**,. The first 20 elements. All credit to ASAP SCIENCE!! Thanks alot. For full version ...
History of Periodic Table Animation - History of Periodic Table Animation by Aya Nasser 156,664

views 6 years ago 6 minutes, 38 seconds
A short history of the periodic table - A short history of the periodic table by ChemSurvival 57,468 views 7 years ago 9 minutes, 9 seconds - Professor Davis is back! In this video he gives a **short introduction**, to the concepts behind the most recognizable image in the ...
Introduction
History
Origin
Modern Periodic Table
The Periodic Table Song OLD VS NEW SIDE BY SIDE - The Periodic Table Song OLD VS NEW SIDE BY SIDE by Zhenzhen Zhang 405,953 views 6 months ago 3 minutes, 5 seconds - All credits go to AsapSCIENCE How many differences can you spot?
Intro to Chemistry & What is Chemistry? - [1-1-1] - Intro to Chemistry & What is Chemistry? - [1-1-1] by Math and Science 291,794 views 1 year ago 1 hour, 8 minutes - In this lesson, you will learn what the study of chemistry entails, why chemistry is important, and the basic ideas studied in any ...
Intro
My Goal
Why Learn Chemistry
Polymers
Examples
What is Chemistry
Atoms
Subatomic particles
Molecules
Electrostatic Force
Elements Compound
Mixtures
Conclusion
Electron Hog
Last Words of Albert Einstein #shorts - Last Words of Albert Einstein #shorts by Shivam Dodwal 3,444,394 views 9 months ago 37 seconds – play Short
The Periodic Table Song REANIMATED - The Periodic Table Song REANIMATED by rykerg 73,023 views 7 months ago 2 minutes, 54 seconds - This took 3 days XD Please like and subscribe (it will make my day!!) DISCORD CHANNEL: https://discord.gg/AXupM7WDtS.
Periodic Table of Elements Song - Periodic Table of Elements Song by KLT 1,989,320 views 5 years ago 47 minutes - Learn about all of the **Periodic Table**, elements with each element broken down into individual videos with **Periodic Table**, of ...
Read the Periodic Table
Element Metals
Cesium Atom
Alkali Metals
Beryllium
Radium
Chromium
Zirconium
38 Transition Medals
Tantalum
Lutetium
Actinide Metals
Uranium
Post-Transition Metals
Gallium
Metalloids
Arsenic
Sulfur
Other Non-Metals
Halogens
Iodine
Krypton
Xenon

Noble Gases
Gold Stock Opportunity Magnitude: “I’ve Never Seen a Situation Like This” says Pro Michael Gentile - Gold Stock Opportunity Magnitude: “I’ve Never Seen a Situation Like This” says Pro Michael Gentile by MiningStockEducation.com 16,635 views 4 days ago 39 minutes - Strategic resource investor Michael Gentile believes investors are being offered a historic opportunity in the gold stocks right now.
Introduction
Magnitude of gold stock opportunity
“This period of time reminds me a lot of 1998: dotcom boom”
Gold investor sentiment at BMO & PDAC
Projects gold producers are looking for
Mine build failures
A.I. to make up for lack of human talent in mining?
Toll milling/mining a red flag?
Binary choice: geology or management?
Binary choice: technical risk or political risk?
Gold: “I’ve never been so right, and not been so richly rewarded…yet”
Motivation to becoming a pro-activist investor?
What is reasonable compensation for a junior mining executive?
You must look a junior mining stocks as a venture capitalist
Don’t just look at the Lassonde curve
When a good project has too much baggage
Would you invest in a private company now?
Junior gold stock exit strategy
Non-gold commodities Michael is bullish on
The Periodic Table Song by OBJECT SHOWS (2024 REMASTERED!) - The Periodic Table Song by OBJECT SHOWS (2024 REMASTERED!) by Angelo Among Us 10,974 views 2 months ago 2 minutes, 48 seconds - This is the 2024 REMASTERED version! Since i read all the comments, i change all the objects in to their correct use on each ...
SLOW "The NEW Periodic Table Song (In Order)" (AsapSCIENCE 2013) - SLOW "The NEW Periodic Table Song (In Order)" (AsapSCIENCE 2013) by Dave-Family 2,396,797 views 10 years ago 4 minutes, 21 seconds - Most is at T (67%) speed, except near the end it's ½ (50%), and the **intro**, and outro are unaltered (100%). A 6-year-old did it, ...
Carbon
Germanium
Rhenium
How To Memorize The Periodic Table - Easiest Way Possible to Remember Elements! - How To Memorize The Periodic Table - Easiest Way Possible to Remember Elements! by Ron White Memory Expert - Memory Training & Brain Training 622,086 views 7 years ago 7 minutes, 17 seconds - If you want to memorize the **periodic table**, of elements you can get the full Black Belt Memory system at the link above. it will teach ...
Hydrogen
Lithium
Boron
Fluorine
Alkali Metals
The Pi Song (Memorize 100 Digits Of À) $CIENCE SONGS - The Pi Song (Memorize 100 Digits Of À) $CIENCE SONGS by AsapSCIENCE 31,123,200 views 5 years ago 1 minute, 15 seconds - ---LYRICS--- 3.14159 this is pi, followed by 2653589 circumference over di-ameter 7-9 then 323 o-m-g, can't you see? 8462643 ...
Chemistry: Introduction to the Periodic Table - Dmitri Mendeleev - Chemistry: Introduction to the Periodic Table - Dmitri Mendeleev by Socratica 559,449 views 8 years ago 9 minutes, 6 seconds - ### The **periodic table**, is the most powerful tool chemists have for organizing chemical information. Without it, chemistry would ...
Introduction to Periodic Table
What does each square tell you about each element - name, chemical symbol, atomic number, atomic mass
Metals - where metallic elements are found on the periodic table
Nonmetals - where non-metallic elements are found on the periodic table

Metalloids - where metalloids are found on the periodic table
Elements are listed in order of increasing atomic number
Each element has a unique atomic number
Why elements are organized into columns - periodicity of chemical behavior/ Periodic Law
Columns are called groups or families - elements in the same group have similar chemical properties (valence electron configurations)
7 Rows called Periods - correspond to energy levels
Alkali metals and alkali Earth metals - s orbitals being filled
p orbitals being filled on right side of periodic table
Noble gases have filled valence shell
Transition metals - d orbitals being filled
Inner Transition metals - Lanthanides and Actinides - f orbitals being filled
How Groups are numbered
Changes to the periodic table
The first periodic table (in Mendeleev's handwriting)
The work of Dmitri Mendeleev 1869 - in order of increasing atomic mass
Lothar Meyer
Mendeleev left gaps in his table and proposed missing elements
Henry Moseley modified periodic table - re-ordered by atomic number instead of atomic mass
92 Naturally occurring elements
synthesized elements
Perfecting the Periodic Table - Perfecting the Periodic Table by Free Animated Education 122,257 views 1 year ago 4 minutes, 31 seconds - The **periodic table**, is a table of substances that lists all of the elements we currently know about. Since the 1800s, lots of chemists ...
Introduction: What is Periodic Table?
The Early Classifications of Elements
Newland's Law of Octaves
Periodic Table by Mendeleev
Periodic Table by Henry Moseley
Modern Periodic Table
The Recent Numbers of Elements in Modern Periodic Table
The Idea of Redesigning Modern Periodic Table
The Periodic Table Song (2018 Update!) | SCIENCE SONGS - The Periodic Table Song (2018 Update!) | SCIENCE SONGS by AsapSCIENCE 44,143,160 views 6 years ago 3 minutes, 5 seconds - SNAPCHAT 'whalewatchmeplz' and 'pixelmitch' Send us stuff! ASAPSCIENCE INC. P.O. Box 93, Toronto P Toronto, ON, M5S2S6 ...
Carbon
Silicon
Potassium
Chromium
Gallium
Rubidium
Molybdenum
Palladium
Antimony
Caesium
Barium
Cerium
Samarium
Lutetium
Hafnium
Osmium
Mercury
Bismuth
Astatine
Neptunium
Californium
Rutherfordium
Livermorium

The genius of Mendeleev's periodic table - Lou Serico - The genius of Mendeleev's periodic table - Lou Serico by TED-Ed 2,907,008 views 11 years ago 4 minutes, 25 seconds - The elements had been listed and carefully arranged before Dmitri Mendeleev. They had even been organized by similar ...
Intro
The genius of Mendeleev
Mendeleevium
What is the Periodic Table? How are Elements Organized? - What is the Periodic Table? How are Elements Organized? by Math and Science 278,105 views 11 months ago 1 hour - In this video, we explore the **periodic table**, and gain a deeper understanding of how it works. The **periodic table**, is a chart that ...
How to Read the Periodic Table - How to Read the Periodic Table by wikiHow 130,290 views 1 year ago 3 minutes, 36 seconds - Follow our social media channels to find more interesting, easy, and helpful guides! Pinterest: https://www.pinterest.com/wikihow/ ...
Intro to Elements, Compounds, & the Periodic Table - [1-1-3] - Intro to Elements, Compounds, & the Periodic Table - [1-1-3] by Math and Science 67,723 views 1 year ago 45 minutes - In this lesson, you will learn what an element is and how they are arranged on the **periodic table**, of the elements. You will learn ...
Atomic Number
Average Mass
Electronegativity
Chemical Reactions
Metallic Elements
Carbon
Iron
Bottom of the Periodic Table
Element 118
Co2
H2o
Gold
Potassium
Copper
Uranium
Sodium
Silicon
Cytosine
Atomic Theory
Transition Region
The Periodic Table Explained - The Periodic Table Explained by Lincoln Learning Solutions 174,827 views 6 years ago 3 minutes, 7 seconds - Although the **Periodic Table**, of Elements looks complex, it is easier to follow once you learn how to use it. For more free ...
What is H on the periodic table?
What information is found in each box of the periodic table?
What happens when we move from left to right in a periodic table?
The periodic table | Atoms, elements, and the periodic table | High school chemistry | Khan Academy - The periodic table | Atoms, elements, and the periodic table | High school chemistry | Khan Academy by Khan Academy Organic Chemistry 1,534,963 views 10 years ago 8 minutes, 56 seconds - The **periodic table**, organizes elements into groups and periods based on their chemical and physical properties. Elements in the ...
Periods
Metals
Alkali Metals
Alkaline Earth Metals
Halogens
Noble Gases
Metalloids
Silicon
Reimagining the Periodic Table - Reimagining the Periodic Table by minutephysics 613,902 views 4 years ago 3 minutes, 9 seconds - This video is about cutting, taping, and rearranging the **periodic table**, into the Left Step form, the Mendeleev's flower form, the cake ...

Intro
The Spiral
Brilliant
A Very Short Introduction - A Very Short Introduction by Oxford Academic (Oxford University Press) 3,929 views 4 years ago 45 seconds - Concise and original, **Very Short Introductions**, offer insights into hundreds of topics.
How To Memorize The Periodic Table - Easiest Way Possible (Video 1) - How To Memorize The Periodic Table - Easiest Way Possible (Video 1) by Memorize Academy 3,345,419 views 9 years ago 5 minutes, 14 seconds - How do you memorize the **periodic table**, in the fastest and easiest way possible? You use the natural power of your visual ...
Introduction
Periodic Table Poster
Hydrogen
Helium
Lithium
Beryllium
Boron
GCSE Chemistry - Modern Periodic Table #9 - GCSE Chemistry - Modern Periodic Table #9 by Cognito 429,656 views 5 years ago 5 minutes, 36 seconds - Learn who made the **periodic table**,, why he arranged the elements this way and about the important groups you need to know.
Dmitri Mendeleev
Nucleus Symbol
Group One Elements
Noble Gases
Transition Metals
Introduction to the Periodic Table - Introduction to the Periodic Table by The Science Classroom 2,339 views 5 years ago 4 minutes, 10 seconds - Josh Kenney explains the modern **periodic table**,. This is the fourth video in the series Atoms and Elements. What will you learn in ...
Dmitri Mendeleev
The Periodic Law
Contents
Elements
Metals
Chemical Families
Transition Metals
Halogens
Noble gases
Summary
Search filters
Keyboard shortcuts
Playback
General
Subtitles and closed captions
Spherical videos

periodic-table-short-intro
elements-periodic-system
chemistry-periodic-table-guide
Periodic Table, Chemical Elements, Chemistry, Atomic Structure, Periodic Trends
Explore the fascinating world of the Periodic Table with this concise introduction. Discover the arrangement of chemical elements, their properties, and the underlying principles that govern their behavior. This overview provides a fundamental understanding of the table's organization, its history, and its significance in modern chemistry and beyond.

Anglicanism: A Very Short Introduction

This short introduction provides an understanding of the diversity of Anglicanism by exploring its history, theology, and structure. It also reveals what it is that holds the Anglican Communion together despite the crises that threaten it.

Methodism: a Very Short Introduction

Beginning as a renewal movement within Anglicanism in the eighteenth century, Methodism had become the largest Protestant denomination in the USA in the nineteenth century, and is today one of the most vibrant forms of Christianity. Representing a complex spiritual and evangelistic experiment that involves a passionate commitment to worldwide mission, it covers a global network of Christian denominations. In this Very Short Introduction William J. Abraham traces Methodism from its origins in the work of John Wesley and the hymns of his brother, Charles Wesley, in the eighteenth century, right up to the present. Considering the identity, nature, and history of Methodism, Abraham provides a fresh account of the place of Methodism in the life and thought of the Christian Church. Describing the message of Methodism, and who the Methodists are, he also considers the practices of Methodism, and discusses the global impact of Methodism and its decline in the homelands. Finally Abraham looks forward, and considers the future prospects for Methodism. ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Nineteenth-Century Britain: A Very Short Introduction

First published as part of the best-selling The Oxford Illustrated History of Britain, Christopher Harvie and Colin Matthew's Very Short Introduction to Nineteenth-Century Britain is a sharp but subtle account of remarkable economic and social change and an even more remarkable political stability. Britain in 1789 was overwhelmingly rural, agrarian, multilingual, and almost half Celtic. By 1914, when it faced its greatest test since the defeat of Napoleon, it was largely urban and English. Christopher Harvie and Colin Matthew show the forces behind Britain's rise to its imperial zenith, and the continuing tensions within the nations and classes of the 'union state'. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Jesus: A Very Short Introduction

Bauckham shows that Jesus was devoted to the God of Israel, with a special focus on God's fatherly love and compassion, and like every Jewish teacher he expounded the Torah, but did so in his own distinctive way.

Scotland: A Very Short Introduction

This Very Short Introduction explores the key themes from more than 1,000 years of Scotland's fascinating history. Covering everything from the Jacobites to devolution to the modern economy, this concise account presents a fully-integrated picture of what Scottish society, culture, politics and religion look like, and why.

Protestantism: A Very Short Introduction

Presents an accessible history of Protestantism from Martin Luther to the present day, focusing on worldwide developments and examining not only European and North American aspects of Protestant journeys, but also the importance of Protestant expansion into the non-Western world.

Pentecostalism: A Very Short Introduction

In religious terms Pentecostalism was probably the most vibrant and rapidly-growing religious movement of the 20th century. Starting as a revivalistic and renewal movement within Christianity, it encircled the globe in less than 25 years and grew in North America and then in those parts of the world with the highest birth-rates. Characterised by speaking in tongues, miracles, television evangelism and megachurches, it is also noted for its small-group meetings, empowerment of individuals, liberation of women and humanitarian concerns. Without the financial and military support of the state (as was the case with communism), it flourished in almost every conceivable socio-political environment. Even in Europe, where religion most frequently appeared tired and out of date, Pentecostalism might draw large crowds or, within mainline Christian congregations, flourish in a more muted charismatic form. When these two forms are added together, Pentecostalism and neo-Pentecostalism are thought to account

for around 450 million people. William K Kay outlines the origins and growth of Pentecostalism, looking at not only the theological aspects of the movement, but also the sociological influences of its political and humanitarian viewpoints. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Quantum Theory: A Very Short Introduction

Quantum Theory is the most revolutionary discovery in physics since Newton. This book gives a lucid, exciting, and accessible account of the surprising and counterintuitive ideas that shape our understanding of the sub-atomic world. It does not disguise the problems of interpretation that still remain unsettled 75 years after the initial discoveries. The main text makes no use of equations, but there is a Mathematical Appendix for those desiring stronger fare. Uncertainty, probabilistic physics, complementarity, the problematic character of measurement, and decoherence are among the many topics discussed. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Stuart Britain: A Very Short Introduction

First published as part of the best-selling The Oxford Illustrated History of Britain, John Morrill's Very Short Introduction to Stuart Britain shows how in the Stuart century, a century of Revolution, political, religious, social, and economic changes came together.

Eighteenth-Century Britain: A Very Short Introduction

Part of The Oxford Illustrated History of Britain, this book spans from the aftermath of the Revolution of 1688 to Pitt the Younger's defeat at attempted parliamentary reform.

Fractals: A Very Short Introduction

An essential discussion of the popular science and mathematics behind fractals reveals how fractal shapes can be found everywhere in nature from clouds to coastlines, explaining how basic concepts in fractal geometry produced a revolution in mathematical understandings of patterns in the 20th century. Original.

Catholicism: A Very Short Introduction

What are the origins of the Catholic Church? How has Catholicism changed and adapted over the centuries? What challenges does the Catholic Church face in the twenty-first century? Gerald O'Collins answers these and other questions in this clear, accessible introduction to the largest and oldest institution in the world.

Monasticism

Explores the phenomenon of monasteries from antiquity to present day as cloister places of refuge where fundamental aspects of life are regimented and spirituality is practiced.

All Things Anglican

All Things Anglican offers a lively and accessible introduction to Anglicanism for anyone wanting to know what makes it distinctive. Whether you are training for Anglican orders, are curious about another denomination or would like to join an Anglican Church, this guide will introduce you to the basics of Anglican identity and the ways of the Church of England.

Nothing: A Very Short Introduction

What is 'nothing'? What remains when you take all the matter away? Can empty space - a void - exist? This Very Short Introduction explores the science and the history of the elusive void: from Aristotle who insisted that the vacuum was impossible, via the theories of Newton and Einstein, to our very latest discoveries and why they can tell us extraordinary things about the cosmos. Frank Close tells the story

of how scientists have explored the elusive void, and the rich discoveries that they have made there. He takes the reader on a lively and accessible history through ancient ideas and cultural superstitions to the frontiers of current research. He describes how scientists discovered that the vacuum is filled with fields; how Newton, Mach, and Einstein grappled with the nature of space and time; and how the mysterious 'aether' that was long ago supposed to permeate the void may now be making a comeback with the latest research into the 'Higgs field'. We now know that the vacuum is far from being empty - it seethes with virtual particles and antiparticles that erupt spontaneously into being, and it also may contain hidden dimensions that we were previously unaware of. These new discoveries may provide answers to some of cosmology's most fundamental questions: what lies outside the universe, and, if there was once nothing, then how did the universe begin? ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Michael Faraday: A Very Short Introduction

Michael Faraday is one of the best known scientific figures of all time. Known as the discoverer of electro-magnetic induction, the principle behind the electric generator and transformer, he has frequently been portrayed as the 'father' of electrical engineering from whence much of his popular fame derives. This Very Short Introduction dispels the myth that Faraday was an experimental genius working alone in his basement laboratory, making fundamental discoveries that were later applied by others. Instead, it portrays Faraday as a grand theorist of the physical world profoundly influencing later physicists such as Thomson (Kelvin), Maxwell, and Einstein. Frank A.J.L. James explores Faraday's life from his origins in eighteenth-century Westmorland and Yorkshire, his religious and scientific background, to the growth of his fame in the nineteenth and twentieth centuries. As well as introducing his scientific research, he also puts Faraday in the various institutional contexts in which he lived and worked, including the Royal Institution, the Royal Society, Trinity House, and other agencies of the state. James therefore provides a commentary on the rapidly changing place of science in nineteenth-century society, especially in regards to its role in government and the growth of a professional scientific community. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

A Short Introduction to Hermeneutics

Hermeneutics defines the rules used to search out the meaning of Scripture. This book assesses major Biblical interpreters & approaches to hermeneutics from the patristic period to the present day.

Calvinism

Calvinism, based on the ideas of John Calvin, is a massive religion today, with widespread church affiliations. It has influenced contemporary thought - especially western thought - on everything from civil government to money, and divorce. Jon Balserak explores the history of the religion and discusses the key ideas in Calvinist theory.

Augustine: A Very Short Introduction

By his writings, the surviving bulk of which exceeds that of any other ancient author, Augustine came to influence not only his contemporaries but also the West since his time. This Very Short Introduction traces the development of Augustine's thought, discussing his reaction to the thinkers before him, and themes such as freedom, creation, and the trinity. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Philosophy of Religion

What is the philosophy of religion? How can we distinguish it from theology on the one hand and the psychology/sociology of religious belief on the other? What does it mean to describe God as eternal? And should religious people want there to be good arguments for the existence of God, or is religious belief only authentic in the absence of these good arguments? In this Very Short Introduction Tim Bayne introduces the field of philosophy of religion, and engages with some of the most burning questions that philosophers discuss. Considering how religion should be defined, and whether we even need to be able to define it in order to engage in the philosophy of religion, he goes on to discuss whether the existence of God matters. Exploring the problem of evil, Bayne also debates the connection between faith and reason, and the related question of what role reason should play in religious contexts. Shedding light on the relationship between science and religion, Bayne finishes by considering the topics of reincarnation and the afterlife. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

The Reformation: A Very Short Introduction

The Reformation transformed Europe, and left an indelible mark on the modern world. It began as an argument about what Christians needed to do to be saved, but rapidly engulfed society in a series of fundamental changes. This Very Short Introduction provides a lively and up-to-date guide to the process. It explains doctrinal debates in a clear and non-technical way, but is equally concerned to demonstrate the effects the Reformation had on politics, society, art, and minorities. Peter Marshall argues that the Reformation was not a solely European phenomenon, but that varieties of faith exported from Europe transformed Christianity into a truly world religion. The complex legacy of the Reformation is also assessed; its religious fervour produced remarkable stories of sanctity and heroism, and some extraordinary artistic achievements, but violence, holy war, and martyrdom were equally its products. A paradox of the Reformation - that it intensified intolerance while establishing pluralism - is one we still wrestle with today. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Christianity

This is a short, accessible analysis of Christianity that focuses on its social and cultural diversity as well as its historical dimensions.

Locke

In this book John Dunn shows how Locke arrived at his theory of knowledge, and how the liberal values of toleration and responsible government formed the backbone of enlightened European thought of the eighteenth century. Focusing on the shape of Locke's intellectual life it looks at the two questions which he addressed with such tenacity: 'how Man can know' and 'how Man should try to live'.

Anglican Theology

This book seeks to explain the ways in which Anglicans have sought to practise theology in their various contexts. It is a clear, insightful, and reliable guide which avoids technical jargon and roots its discussions in concrete examples. The book is primarily a work of historical theology, which engages deeply with key texts and writers from across the tradition (e.g. Cranmer, Jewel, Hooker, Taylor, Butler, Simeon, Pusey, Huntington, Temple, Ramsey, and many others). As well as being suitable for seminary courses, it will be of particular interest to study groups in parishes and churches, as well as to individuals who seek to gain a deeper insight into the traditions of Anglicanism. While it adopts a broad and unpartisan approach, it will also be provocative and lively.

Christian Ethics: A Very Short Introduction

This book provides both a short history of Christian ethics and looks at itsbasic sources as they arise from Judaism, Greco-Roman ethics, andChristianity

The Bible: a Very Short Introduction

This study explores the importance of the Bible in different communities and cultures and attempts to explain why it has such a variety of uses and interpretations.

Augustine of Hippo

The life and works of Augustine of Hippo (354-430) have shaped the development of the Christian Church, sparking controversy and influencing the ideas of theologians through subsequent centuries. His words are still frequently quoted in devotions throughout the global Church today. His key themes retain a striking contemporary relevance - what is the place of the Church in the world? What is the relation between nature and grace? Augustine's intellectual development is recounted with clarity and warmth in this newly rediscovered biography of Augustine, as interpreted by the acclaimed church historian, the late Professor Henry Chadwick. Augustine's intellectual journey from schoolboy and student to Bishop and champion of Western Christendom in a period of intense political upheaval, is narrated in Chadwick's characteristically rigorous yet sympathetic style. With a foreword by Peter Brown reflecting on Chadwick's distinctive approach to Augustine.

The Established Church

This book offers a definitive account of the recent history and theology of the establishment of the Church of England. Written in an accessible style and at the same time rooted in serious scholarship, it offers a range of views and opinions as well as an awareness of contemporary political and social problems. It asks a number of penetrating questions, including the key issue of the extent to which churches, and particularly the Church of England, can be protected from equality legislation, while at the same time expecting to have special political and social privileges. This issue relates to the thorny problems of the reform of the House of Lords, and even to the future of the Monarchy. While there is no effort to impose a particular agenda or solution, the book is nevertheless often provocative and suggests a number of ways forward for establishment. It is intended as a lively contribution to an often-overlooked debate, which has nevertheless become increasingly important in the multi-cultural context of contemporary Britain.

Relativity: A Very Short Introduction

100 years ago, Einstein's theory of relativity shattered the world of physics. Our comforting Newtonian ideas of space and time were replaced by bizarre and counterintuitive conclusions: if you move at high speed, time slows down, space squashes up and you get heavier; travel fast enough and you could weigh as much as a jumbo jet, be squashed thinner than a CD without feeling a thing - and live for ever. And that was just the Special Theory. With the General Theory came even stranger ideas of curved space-time, and changed our understanding of gravity and the cosmos. This authoritative and entertaining Very Short Introduction makes the theory of relativity accessible and understandable. Using very little mathematics, Russell Stannard explains the important concepts of relativity, from E=mc2 to black holes, and explores the theory's impact on science and on our understanding of the universe. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Hobbes: A Very Short Introduction

Thomas Hobbes, the first great English political philosopher, has long had the reputation of being a pessimistic atheist, who saw human nature as inevitably evil and proposed a totalitarian state to subdue human failings. In this illuminating study, Richard Tuck re-evaluates Hobbes's philosophy and dispels these myths, revealing him to have been passionately concerned with the refutation of scepticism, and to have developed a theory of knowledge which rivalled that of Descartes in its importance. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Free Speech: A Very Short Introduction

This introduction to free speech offers a thought-provoking guide to questions concerning how important free speech is and whether it should be defended at all costs. It explores both the traditional philosophical arguments as well as the practical issues and controversies facing modern society.

Catholicism: A Very Short Introduction

Despite a long history of external threats and internal strife, the Roman Catholic Church and the broader reality of Catholicism remain a vast and valuable presence into the third millennium of world history. What are the origins of the Catholic Church? How has Catholicism changed and adapted to such vast and diverse cultural influences over the centuries? What great challenges does the Catholic Church now face in the twenty-first century, both within its own life and in its relation to others around the world? In this Very Short Introduction, Gerald O'Collins draws on the best current scholarship available to answer these questions and to present, in clear and accessible language, a fresh introduction to the largest and oldest institution in the world. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Puritanism: A Very Short Introduction

Written by a leading expert on the Puritans, this brief, informative volume offers a wealth of background on this key religious movement. This book traces the shaping, triumph, and decline of the Puritan world, while also examining the role of religion in the shaping of American society and the role of the Puritan legacy in American history. Francis J. Bremer discusses the rise of Puritanism in the English Reformation, the struggle of the reformers to purge what they viewed as the corruptions of Roman Catholicism from the Elizabethan church, and the struggle with the Stuart monarchs that led to a brief Puritan triumph under Oliver Cromwell. It also examines the effort of Puritans who left England to establish a godly kingdom in America. Bremer examines puritan theology, views on family and community, their beliefs about the proper relationship between religion and public life, the limits of toleration, the balance between individual rights and one's obligation to others, and the extent to which public character should be shaped by private religious belief. About the Series: Combining authority with wit, accessibility, and style, Very Short Introductions offer an introduction to some of life's most interesting topics. Written by experts for the newcomer, they demonstrate the finest contemporary thinking about the central problems and issues in hundreds of key topics, from philosophy to Freud, quantum theory to Islam.

Literary Theory: A Very Short Introduction

Culler offers insights into theories about the nature of language and meaning, looks at whether literature is a form of self-expression or a method of appeal to an audience, and outlines the ideas behind deconstruction and semiotics.

Making Italy Anglican

"The first Italian translation of the Book of Common Prayer was made in 1608 by William Bedell (the chaplain to James I's ambassador in Venice) with the help of Fulgenzio Micanzio and Paolo Sarpi. This translation was part of an English propaganda plan to instigate a schism in the Church of Venice, at a time of conflict between the court of Rome and the Venetian Republic. This chapter reconstructs the relationships between Sarpi and Micanzio and the English embassy in Venice. As far as we know, Bedell's translation remained a manuscript with no known copies extant"--

The History of Life: A Very Short Introduction

There are few stories more remarkable than the evolution of life on earth. This Very Short Introduction presents a succinct guide to the key episodes in that story - from the very origins of life four million years ago to the extraordinary diversity of species around the globe today. Beginning with an explanation of the controversies surrounding the birth of life itself, each following chapter tells of a major breakthrough that made new forms of life possible: including sex and multicellularity, hard skeletons, and the move to land. Along the way, we witness the greatest mass extinction, the first forests, the rise of modern ecosystems, and, most recently, conscious humans. Introducing ideas from a range of

scientific disciplines, from evolutionary biology and earth history, to geochemistry, palaeontology, and systematics, Michael Benton explains how modern science pieces the evidence in this vast evolutionary puzzle together, to build up an accessible and up-to-date picture of the key developments in the history of life on earth. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

The American Presidency: A Very Short Introduction

The expansion of executive powers amid the war on terrorism has brought the presidency to the center of heated public debate. Now, in The American Presidency, presidential authority Charles O. Jones provides invaluable background to the current controversy, in a compact, reliable guide to the office of the chief executive. This marvelously concise survey is packed with information about the presidency, some of it quite surprising. We learn, for example, that the Founders adopted the word "president" over "governor" and other alternatives because it suggested a light hand, as in one who presides, rather than rules. Indeed, the Constitutional Convention first agreed to a weak chief executive elected by congress for one seven-year term, later calling for independent election and separation of powers. Jones sheds much light on how assertive leaders, such as Andrew Jackson, Theodore Roosevelt, and FDR enhanced the power of the presidency, and illuminating how such factors as philosophy (Reagan's anti-Communist conservatism), the legacy of previous presidencies (Jimmy Carter following Watergate), relations with Congress, and the impact of outside events have all influenced presidential authority. He also explores the rise of federal power and the dramatic expansion of federal agencies, showing how the president takes a direct hand in this vast bureaucracy, and he examines the political process of selecting presidents, from the days of deadlocked conventions to the rise of the primary after World War II. "In 200 years," he writes, "the presidency had changed from that of a person--Washington followed by Adams, then Jefferson--to a presidential enterprise with a cast of thousands." Jones explains how this remarkable expansion has occurred and where it may lead in the future. About the Series: Combining authority with wit, accessibility, and style, Very Short Introductions offer an introduction to some of life's most interesting topics. Written by experts for the newcomer, they demonstrate the finest contemporary thinking about the central problems and issues in hundreds of key topics, from philosophy to Freud, quantum theory to Islam.

Superconductivity: A Very Short Introduction

Superconductivity is one of the most exciting areas of research in physics today. Outlining the history of its discovery, and the race to understand its many mysterious and counter-intuitive phenomena, this Very Short Introduction explains in accessible terms the theories that have been developed, and how they have influenced other areas of science, including the Higgs boson of particle physics and ideas about the early Universe. It is an engaging and informative account of a fascinating scientific detective story, and an intelligible insight into some deep and beautiful ideas of physics. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Sociology: A Very Short Introduction

Drawing on studies of social class, crime and deviance, education, work in bureaucracies and changes in religious and political organizations, this Very Short Introduction explores the tension between the individual's place in society and society's role in shaping the individual, and demonstrates the value of sociology for understanding the modern world. In this new edition Steve Bruce discusses the continuing arguments for social egalitarianism, considering issues such as gay marriage, women in combat roles, and the 2010 Equality Act to debunk contemporary arguments against parity. As gender divisions are increasingly questioned he looks ahead to the likely consequences of this for society. Delving into the theory of sociology, Bruce also argues that the habit of dividing sociology into apparently competing 'sects' is misleading, and shows how a new understanding of the disciplinary background of many of the most famous theorists, which shows that much social theory is actually philosophy or literary theory, will prove useful to today's sociologists. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized

books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Marine Biology A Very Short Introduction

Marine Biology | The Very Short Introductions Podcast | Episode 64 - Marine Biology | The Very Short Introductions Podcast | Episode 64 by Oxford Academic (Oxford University Press) 412 views 10 months ago 17 minutes - In this episode, Philip Mladenov introduces **marine biology**,, a field whose importance is ever growing as our oceans undergo ...
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Who is teaching
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Where can you ask questions
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do your research
take advantage of office hours
marine biology vs marine science
chemistry
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Introduction
Are you too stupid
Science attracts smart people
Curiosity
Smartness
Critical thinking
What is critical thinking
How to be a critical thinker
Why critical thinking is important
You are working in science
Accepting new ideas
Conclusion
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2 - The Giant Tube Worm, Riftia pachyptila
2 - The Dispersal of Life at Hydrothermal Vents
2 - A New Deep Sea Ecosystem
3 - Octopus Odyssey: The Octopus Gardens
3 - New Findings at the Octopus Gardens

3 - Muusoctopus: Reproduction and Hatching
4 - Health Diagnostics of Deep Sea Corals
4 - Mesophotic Corals of Puerto Rico
4 - DISCO & SOLARIS: Reactive Oxygen Species Sensors
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5 - Corals of the Vertical Reefs
5 - Mapping the Vertical Reefs
5 - Wonders of the Deep Galapagos
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6 - Innovations in Deep Sea Exploration
6 - Mapping the Deep Sea Floor
7 - The Challenges of Exploring the Deep
7 - Hydrothermal Vents of the Galapagos
7 - The Great Squat Lobster Trail
7 - A Newly Discovered Hydrothermal Vent Field
The True Extent of the Deep Sea
The Achievements of Falkor (too)
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Assignments
The Major Assignments
Course Assessments
Major Project
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Stressors in the Marine Environment
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Photography: A Very Short Introduction

Photographs are an integral part of our daily lives - from snapshots and tabloid newspapers to art photography in galleries and exhibitions. Edwards combines a sense of the historical development of photography with an insightful analysis of its purpose and meaning within a wider cultural context.

Photography: A Very Short Introduction

Photographs are an integral part of our daily lives from sensationalist images in tabloid papers and snapshots, to art photograpy displayed in galleries and sold through international art markets. In this thought-provoking exploration of the subject, Edwards combines a sense of the historical development of photography with an analysis of its purpose and meaning within a wider cultural context. He interrogates the way we look and think about photographs, and considers such issues as truth and recording, objectivity and fine art, identity and memory. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert

authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Film: A Very Short Introduction

Offers a wealth of insight into the paradoxical nature of film, considering its role and impact on society in the 20th century as well as its future in the digital age. Original.

Modern Art: A Very Short Introduction

As public interest in modern art continues to grow, as witnessed by the spectacular success of Tate Modern and the Bilbao Guggenheim, there is a real need for a book that will engage general readers, offering them not only information and ideas about modern art, but also explaining its contemporary relevance and history. This book achieves all this and focuses on interrogating the idea of 'modern' art by asking such questions as: What has made a work of art qualify as modern (or fail to)? How has this selection been made? What is the relationship between modern and contemporary art? Is 'postmodernist' art no longer modern, or just no longer modernist - in either case, why, and what does this claim mean, both for art and the idea of 'the modern'? Cottington examines many key aspects of this subject, including the issue of controversy in modern art, from Manet's Dejeuner sur L'Herbe (1863) to Picasso's Les Demoiselles, and Tracey Emin's Bed, (1999); and the role of the dealer from the main Cubist art dealer Kahnweiler to Charles Saatchi. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Stars: A Very Short Introduction

Every atom of our bodies has been part of a star. Our very own star, the Sun, is crucial to the development and sustainability of life on Earth. This Very Short Introduction presents a modern, authoritative examination of how stars live, producing all the chemical elements beyond helium, and how they die, sometimes spectacularly, to end as remnants such as black holes. Andrew King shows how understanding the stars is key to understanding the galaxies they inhabit, and thus the history of our entire Universe, as well as the existence of planets like our own. King presents a fascinating exploration of the science of stars, from the mechanisms that allow stars to form and the processes that allow them to shine, as well as the results of their inevitable death. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Emotion: A Very Short Introduction

Was love invented by European poets in the Middle Ages or is it part of human nature? Will winning the lottery really make you happy? Is it possible to build robots that have feelings? These are just some of the intriguing questions explored in this guide to the latest thinking about the emotions. Drawing on a wide range of scientific research, from anthropology and psychology to neuroscience and artificial intelligence, Emotion: The Science of Sentiment takes the reader on a fascinating journey into the human heart. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Neoliberalism: A Very Short Introduction

Anchored in the principles of the free-market economics, 'neoliberalism' has been associated with such different political leaders as Ronald Reagan, Margaret Thatcher, Bill Clinton, Tony Blair, Augusto Pinochet, and Junichiro Koizumi. In its heyday during the late 1990s, neoliberalism emerged as the world's dominant economic paradigm stretching from the Anglo-American heartlands of capitalism to the former communist bloc all the way to the developing regions of the global South. At the dawn of the new century, however, neoliberalism has been discredited as the global economy, built on its principles,

has been shaken to its core by a financial calamity not seen since the dark years of the 1930s. So is neoliberalism doomed or will it regain its former glory? Will reform-minded G-20 leaders embark on a genuine new course or try to claw their way back to the neoliberal glory days of the Roaring Nineties? Is there a viable alternative to neoliberalism? Exploring the origins, core claims, and considerable variations of neoliberalism, this Very Short Introduction offers a concise and accessible introduction to one of the most debated 'isms' of our time. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Art History: A Very Short Introduction

This clear and concise new introduction examines all the major debates and issues using a wide range of well-known examples. It discusses the challenge of using verbal and written language to analyse a visual form. Dana Arnold also examines the many different ways of writing about art, and the changing boundaries of the subject of art history. Topics covered include the canon of Art History, the role of the gallery, 'blockbuster' exhibitions, the emergence of social histories of art (Feminist Art History or Queer Art History, for example), the impact of photography, and the development of Art History using artefacts such as the altarpiece, the portrait, or pornography, to explore social and cultural issues such as consumption, taste, religion, and politics. Importantly, this book explains how the traditional emphasis on periods and styles originates in western art production and can obscure other critical approaches, as well as art from non western cultures. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Martin Luther: A Very Short Introduction

When Martin Luther posted his Ninety-Five Theses (reputedly nailed to the door of the Castle Church in Wittenberg), he unwittingly launch a movement that would dramatically change the course of European history. This superb short introduction to Martin Luther, written by a leading authority on Luther and the Reformation, presents this pivotal figure as historians now see him. Instead of singling him out as a modern hero, historian Scott Hendrix emphasizes the context in which Luther worked, the colleagues who supported him, and the opponents who adamantly opposed his agenda for change. The author explains the religious reformation and Luther's importance without ignoring the political and cultural forces, like princely power and Islam, which led the reformation down paths Luther could neither foresee nor influence. The book pays tribute to Luther's genius but also recognizes the self-righteous attitude that alienated contemporaries. The author offers a unique explanation for that attitude and for Luther's anti-Jewish writings, which are especially hard to comprehend after the Holocaust.

Dada and Surrealism: A Very Short Introduction

The avant-garde movements of Dada and Surrealism continue to have a huge influence on cultural practice, especially in contemporary art, with its obsession with sexuality, fetishism, and shock tactics. In this new treatment of the subject, Hopkins focuses on the many debates surrounding these movements: the Marquis de Sade's Surrealist deification, issues of quality (How good is Dali?), the idea of the 'readymade', attitudes towards the city, the impact of Freud, attitudes to women, fetishism, and primitivism. The international nature of these movements is examined, covering the cities of Zurich, New York, Berlin, Cologne, Barcelona, Paris, London, and recenlty discovered examples in Eastern Europe. Hopkins explores the huge range of media employed by both Dada and Surrealism (collage, painting, found objects, performance art, photography, film) , whilst at the same time establishing the aesthetic differences between the movements. He also examines the Dadaist obsession with the body-as-mechanism in relation to the Surrealists' return to the fetishized/eroticized body. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Science and Religion: A Very Short Introduction

The debate between science and religion is never out of the news: emotions run high, fuelled by polemical bestsellers like iThe God Delusion/i and, at the other end of the spectrum, high-profile campaigns to teach 'Intelligent Design' in schools.Yet there is much more to the debate than the clash of these extremes. As Thomas Dixon shows in this balanced and thought-provoking introduction, a whole range of views, subtle arguments, and fascinating perspectives can be taken on this complex and centuries-old subject. He explores not only thekey philosophical questions that underlie the debate, but also highlights the social, political, and ethical contexts that have made 'science and religion' such a fraught and interesting topic in the modern world. Along the way, he examines landmark historical episodes such as the Galileo affair,Charles Darwin's own religious and scientific odyssey, the Scopes 'Monkey Trial' in Tennessee in 1925, and the Dover Area School Board case of 2005, and includes perspectives from non-Christian religions and examples from across the physical, biological, and social sciences.

Christian Art

This work decodes the key themes, signs and symbols found in Christian art - the Eucharist, the Crucifixion, the Virgin Mary. It also explores the theological and historical background of Christian imagery, from the devotional works of the medieval and Renaissance periods, to the 21st century.

English Literature: A Very Short Introduction

Sweeping across two millennia and every literary genre, acclaimed scholar and biographer Jonathan Bate provides a dazzling introduction to English Literature. The focus is wide, shifting from the birth of the novel and the brilliance of English comedy to the deep Englishness of landscape poetry and the ethnic diversity of Britain's Nobel literature laureates. It goes on to provide a more in-depth analysis, with close readings from an extraordinary scene in King Lear to a war poem by Carol Ann Duffy, and a series of striking examples of how literary texts change as they are transmitted from writer to reader. The narrative embraces not only the major literary movements such as Romanticism and Modernism, together with the most influential authors including Chaucer, Donne, Johnson, Wordsworth, Austen, Dickens and Woolf, but also little-known stories such as the identity of the first English woman poet to be honoured with a collected edition of her works. Written with the flair and passion for which Jonathan Bate has become renowned, this book is the perfect Very Short Introduction for all readers and students of the incomparable literary heritage of these islands. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Contemporary Art: A Very Short Introduction

Contemporary art has never been so popular - but the art world is changing. In a landscape of increasing globalization there is growing interest in questions over the nature of contemporary art today, and the identity of who is controlling its future. In the midst of this, contemporary art continues to be a realm of freedom where artists shock, break taboos, flout generally received ideas, and switch between confronting viewers with works of great emotional profundity and jaw-dropping triviality. In this Very Short Introduction Julian Stallabrass gives a clear view on the diverse and rapidly moving scene of contemporary art. Exploring art's striking globalisation from the 1990s onwards, he analyses how new regions and nations, such as China, have leapt into astonishing prominence, over-turning the old Euro-American dominance on aesthetics. Showing how contemporary art has drawn closer to fashion and the luxury goods market as artists have become accomplished marketers of their work, Stallabrass discusses the reinvention of artists as brands. This new edition also considers how once powerful art criticism has mutated into a critical and performative writing at which many artists excel. Above all, behind the insistent rhetoric of freedom and ambiguity in art, Stallabrass explores how big business and the super-rich have replaced the state as the primary movers of the contemporary art scene, especially since the financial crisis, and become a powerful new influence over the art world. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Renaissance Art: A Very Short Introduction

Botticelli, Holbein, Leonardo, Dürer, Michelangelo: the names are familiar, as are the works, such as the Last Supper fresco, or the monumental marble statue of David. But who were these artists, why did they produce such memorable images, and how would their original beholders have viewed these objects? Was the Renaissance only about great masters and masterpieces, or were "mistresses" also involved, such as women artists and patrons? And what about the 'minor'-pieces that Renaissance men and women would have encountered in homes, churches and civic spaces? This exciting and stimulating volume will answer such questions by considering both famous and lesser-known artists, patrons and works of art within the cultural and historical context of Renaissance Europe. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Fashion: A Very Short Introduction

Fashion is a dynamic global industry that plays an important role in the economic, political, cultural, and social lives of an international audience. It spans high art and popular culture, and plays a significant role in material and visual culture. This book introduces fashion's myriad influences and manifestations. Fashion is explored as a creative force, a business, and a means of communication. From Karl Lagerfeld's creative reinventions of Chanel's iconic style to the multicultural reference points of Indian designer Manish Arora, from the spectacular fashion shows held in nineteenth century department stores to the mix-and-match styles of Japanese youth, the book examines the ways that fashion both reflects and shapes contemporary culture. Using historical and contemporary examples, it gives a clear understanding of how fashion has developed since the renaissance, while raising questions about its status, ethical credibility, and influence on consumers. The book provides insight into the structure of the fashion industry and how fashions are designed, promoted and consumed, in relation to relevant historical, social and cultural contexts. It is structured thematically, to look at the role and development of designers, the growth of shopping and the different businesses involved in making and selling fashionable clothes. Fashion's relationship to the wider culture is also explored, by considering its representation in art and collaborations between designers and artists, the moral controversies surrounding fashion, and attempts to produce ethical clothing, and the effects of globalisation on the fashion trade. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Design: A Very Short Introduction

This book will transform the way you think about design by showing how integral it is to our daily lives, from the spoon we use to eat our breakfast cereal to the medical equipment used to save lives. John Heskett goes beyond style and taste to look at how different cultures and individuals personalise objects.

Contemporary Art: A Very Short Introduction

"Bloodied toy soldiers, gilded shopping carts, and Lego concentration camps. Contemporary art is supposed to be a realm of freedom where artists shock, break taboos, and switch between confronting viewers with works of great profundity and jaw-dropping triviality. But away from shock tactics in the gallery, there are many unanswered questions. What is contemporary about contemporary art? What effect do politics and big business have on art? And who really runs the art world?" "Previously published as Art Incorporated, this controversial and witty Very Short Introduction is an exploration of the global art scene that will change the way you see contemporary art."--BOOK JACKET.

Poststructuralism: A Very Short Introduction

Poststructuralism changes the way we understand the relations between human beings, their culture, and the world. Following a brief account of the historical relationship between structuralism and poststructuralism, this Very Short Introduction traces the key arguments that have led poststructuralists to challenge traditional theories of language and culture. Whilst the author discusses such well-known figures as Barthes, Foucault, Derrida, and Lacan, she also draws pertinent examples from literature, art, film, and popular culture, unfolding the postructuralist account of what it means to be a human being. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

The History of Mathematics: A Very Short Introduction

Mathematics is a fundamental human activity that can be practised and understood in a multitude of ways; indeed, mathematical ideas themselves are far from being fixed, but are adapted and changed by their passage across periods and cultures. In this Very Short Introduction, Jacqueline Stedall explores the rich historical and cultural diversity of mathematical endeavour from the distant past to the present day. Arranged thematically, to exemplify the varied contexts in which people have learned, used, and handed on mathematics, she also includes illustrative case studies drawn from a range of times and places, including early imperial China, the medieval Islamic world, and nineteenth-century Britain. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Philosophy: A Very Short Introduction

How ought we to live? What really exists? How do we know? This book introduces important themes in ethics, knowledge, and the self, via readings from Plato, Hume, Descartes, Hegel, Darwin, and Buddhist writers. It emphasizes throughout the point of doing philosophy, explains how different areas of philosophy are related, and explores the contexts in which philosophy was and is done. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Humanism: A Very Short Introduction

Summary: Philosopher Stephen Law explains why humanism--though a rejection of religion--nevertheless provides both a moral basis and a meaning for our lives.-publisher description.

Beauty: A Very Short Introduction

"First published in hardback as Beauty, 2009"--T.p. verso.

Kant: A Very Short Introduction

Kant is arguably the most influential modern philosopher, but also one of the most difficult. Roger Scruton tackles his exceptionally complex subject with a strong hand, exploring the background to Kant's work and showing why the Critique of Pure Reason has proved so enduring. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Materials

In this Very Short Introduction, Christopher Hall shows how material science combines physics, chemistry, and biology with engineering to understand and exploit materials and create new ones, often with extraordinary optical and electrical properties.

Autobiography: A Very Short Introduction

Autobiography is one of the most popular of written forms. From Casanova to Benjamin Franklin to the Kardashians, individuals throughout history have recorded their own lives and experiences. These personal writings are central to the work of literary critics, philosophers, historians and psychologists, who have found in autobiographies from across the centuries not only an understanding of the ways in which lives have been lived, but the most fundamental accounts of what it means to be a self in the world. In this Very Short Introduction Laura Marcus defines what we mean by 'autobiography', and considers its relationship with similar literary forms such as memoirs, journals, letters, diaries, and essays. Analysing the core themes in autobiographical writing, such as confession, conversion and testimony; romanticism and the journeying self; Marcus discusses the autobiographical consciousness (and the roles played by time, memory and identity), and considers the relationship between psychoanalysis and autobiography. Exploring the themes of self-portraiture and performance, Marcus also discusses the ways in which fiction and autobiography have shaped each other. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Nothing: A Very Short Introduction

What is 'nothing'? What remains when you take all the matter away? Can empty space - a void - exist? This Very Short Introduction explores the science and the history of the elusive void: from Aristotle who insisted that the vacuum was impossible, via the theories of Newton and Einstein, to our very latest discoveries and why they can tell us extraordinary things about the cosmos. Frank Close tells the story of how scientists have explored the elusive void, and the rich discoveries that they have made there. He takes the reader on a lively and accessible history through ancient ideas and cultural superstitions to the frontiers of current research. He describes how scientists discovered that the vacuum is filled with fields; how Newton, Mach, and Einstein grappled with the nature of space and time; and how the mysterious 'aether' that was long ago supposed to permeate the void may now be making a comeback with the latest research into the 'Higgs field'. We now know that the vacuum is far from being empty - it seethes with virtual particles and antiparticles that erupt spontaneously into being, and it also may contain hidden dimensions that we were previously unaware of. These new discoveries may provide answers to some of cosmology's most fundamental questions: what lies outside the universe, and, if there was once nothing, then how did the universe begin? ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Genes

Explores the discovery, nature, and role of genes in evolution and development.

Cognitive Neuroscience

This volume describes the new field of cognitive neuroscience - the study of what happens in the brain when we perceive, think, reason, remember, and act. Focusing on the human brain, Passingham looks at the most recent research in the field, the modern brain imaging technologies, and what the images can and can't tell us.

Sociolinguistics: A Very Short Introduction

This Very Short Introduction deals with the social life of language, presenting a succinct account of the most important aspects - both "micro" and "macro" - of sociolinguistics, such as language variation, language attitudes, and the relationship between language and identity.

Sikhism

An accessible introduction to the world's fifth largest religion, this work presents Sikhism's meanings and myths, and its practices, rituals, and festivals, also addressing ongoing social issues such as the relationship with the Indian state, the diaspora, and caste.

Human Rights

Focusing on highly topical issues such as torture, arbitrary detention, privacy, and discrimination, this book will help readers to understand for themselves the controversies and complexities behind human rights.

Free Speech: A Very Short Introduction

'I disapprove of what you say, but I will defend to the death your right to say it' This slogan, attributed to Voltaire, is frequently quoted by defenders of free speech. Yet it is rare to find anyone prepared to defend all expression in every circumstance, especially if the views expressed incite violence. So where do the limits lie? What is the real value of free speech? Here, Nigel Warburton offers a concise guide to important questions facing modern society about the value and limits of free speech: Where should a civilized society draw the line? Should we be free to offend other people's religion? Are there good grounds for censoring pornography? Has the Internet changed everything? This Very Short Introduction is a thought-provoking, accessible, and up-to-date examination of the liberal assumption that free speech is worth preserving at any cost. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Advertising: A Very Short Introduction

How advertising works is not a question that has a simple answer. Advertising is a diverse entity and different campaigns work (or fail to work) in a plethora of different ways. Most advertising persuades people to buy things, but how? And who does it aim to persuade? And how are these decisions made? In this Very Short Introduction Winston Fletcher, an expert with extensive knowledge of advertising from the inside, aims to answer these questions, and in doing so, dispels some of the myths and misunderstandings surrounding the industry. The book contains a short history of advertising and an explanation of how the industry works, and how each of the parties (the advertisers , the media and the agencies) are involved. It considers the extensive spectrum of advertisers and their individual needs. It also looks at the financial side of advertising and asks how advertisers know if they have been successful, or whether the money they have spent has in fact been wasted. Fletcher concludes with a discussion about the controversial and unacceptable areas of advertising such as advertising products to children and advertising products such as cigarettes and alcohol. He also discusses the benefits of advertising and what the future may hold for the industry. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Knowledge

What is knowledge? Is it the same as opinion or truth? Do you need to be able to justify a claim in order to count as knowing it? How can we know that the outer world is real and not a dream? Questions like these have existed since ancient times, and the branch of philosophy dedicated to answering them - epistemology - has been active for thousands of years. In this thought-provoking Very Short Introduction, Jennifer Nagel considers the central problems and paradoxes in the theory of knowledge and draws attention to the ways in which philosophers and theorists have responded to them. By exploring the relationship between knowledge and truth, and considering the problem of scepticism, Nagel introduces a series of influential historical and contemporary theories of knowledge, incorporating methods from logic, linguistics, and psychology, using a number of everyday examples to demonstrate the key issues and debates. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Ecology: a Very Short Introduction

Understanding how our living environment works is essentially a study of ecological systems. Ecology is the science of how organisms interact with each other and with their environment, and how such interactions create self-organising communities and ecosystems. This science touches us all. The food we eat, the water we drink, the natural resources we use, our physical and mental health, and much of our cultural heritage are to a large degree products of ecological interactions of organisms and their environment. This Very Short Introduction celebrates the centrality of ecology in our lives. Jaboury Ghazoul explores how ecology has evolved rapidly from natural history to become a predictive science that explains how the natural world works, and which guides environmental policy and management decisions. Drawing on a range of examples, he shows how ecological science can be applied to management and conservation, including the extent to which theory has shaped practice. Ecological science has also shaped social and cultural perspectives on the environment, a process that influences politics of the environment. Ghazoul concludes by considering the future of ecology, particularly in the light of current and future environmental challenges. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

The U.S. Constitution

The U.S. Constitution: A Very Short Introduction explores the major themes of American constitutional history-federalism, the balance of powers, property, representation, equality, rights, and security. Informed by the latest scholarship, each theme illustrates how the Constitution has served as a dynamic framework for legitimating power and advancing liberty.

Liberalism

Michael Freeden explores the concept of liberalism, one of the longest-standing and central political theories and ideologies. Combining a variety of approaches, he distinguishes between liberalism as a political movement, as a system of ideas, and as a series of ethical and philosophical principles.

Critical Theory

Secondary edition statement from sticker on cover.

Stoicism: A Very Short Introduction

Stoicism is two things: a long past philosophical school of ancient Greece and Rome, and an enduring philosophical movement that still inspires people in the twenty-first century to re-think and re-organize their lives in order to achieve personal satisfaction. What is the connection between them? This Very Short Introduction provides an introductory account of Stoic philosophy, and tells the story of how ancient Stoicism survived and evolved into the movement we see today. Exploring the roots of the school in the philosophy of fourth century BCE Greece, Brad Inwood examines its basic history and doctrines and its relationship to the thought of Plato, Aristotle and his successors, and the Epicureans.

Sketching the history of the school's reception in the western tradition, he argues that, despite the differences between ancient and contemporary Stoics, there is a common core of philosophical insight that unites the modern version not just to Seneca, Epictetus, and Marcus Aurelius but also to the school's original founders, Zeno, Cleanthes, and Chrysippus. Inwood concludes by considering the place of Stoicism in modern life. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Introduction to Modern Prime Number Theory

This 1952 book attempts to prove the Vinogradov-Goldbach theorem: that every sufficiently large odd number is the sum of three primes.

Introduction to Modern Prime Number Theory

This book is a revised and greatly expanded version of our book Elements of Number Theory published in 1972. As with the first book the primary audience we envisage consists of upper level undergraduate mathematics majors and graduate students. We have assumed some familiarity with the material in a standard undergraduate course in abstract algebra. A large portion of Chapters 1-11 can be read even without such background with the aid of a small amount of supplementary reading. The later chapters assume some knowledge of Galois theory, and in Chapters 16 and 18 an acquaintance with the theory of complex variables is necessary. Number theory is an ancient subject and its content is vast. Any intro ductory book must, of necessity, make a very limited selection from the fascinat ing array of possible topics. Our focus is on topics which point in the direction of algebraic number theory and arithmetic algebraic geometry. By a careful selection of subject matter we have found it possible to exposit some rather advanced material without requiring very much in the way oftechnical background. Most of this material is classical in the sense that is was dis covered during the nineteenth century and earlier, but it is also modern because it is intimately related to important research going on at the present time.

A Classical Introduction to Modern Number Theory

Natural numbers are the oldest human invention. This book describes their nature, laws, history and current status. It has seven chapters. The first five chapters contain not only the basics of elementary number theory for the convenience of teaching and continuity of reading, but also many latest research results. The first time in history, the traditional name of the Chinese Remainder Theorem is replaced with the Qin Jiushao Theorem in the book to give him a full credit for his establishment of this famous theorem in number theory. Chapter 6 is about the fascinating congruence modulo an integer power, and Chapter 7 introduces a new problem extracted by the author from the classical problems of number theory, which is out of the combination of additive number theory and multiplicative number theory.One feature of the book is the supplementary material after each section, there by broadening the reader's knowledge and imagination. These contents either discuss the rudiments of some aspects or introduce new problems or conjectures and their extensions, such as perfect number problem, Egyptian fraction problem, Goldbach's conjecture, the twin prime conjecture, the 3x + 1 problem, Hilbert Waring problem, Euler's conjecture, Fermat's Last Theorem, Laudau's problem and etc.This book is written for anyone who loves natural numbers, and it can also be read by mathematics majors, graduate students, and researchers. The book contains many illustrations and tables. Readers can appreciate the author's sensitivity of history, broad range of knowledge, and elegant writing style, while benefiting from the classical works and great achievements of masters in number theory.

A Modern Introduction To Classical Number Theory

Growing out of a course designed to teach Gauss's Disquisitiones Arithmeticae to honors-level undergraduates, Flath's Introduction to Number Theory focuses on Gauss's theory of binary quadratic forms. It is suitable for use as a textbook in a course or self-study by advanced undergraduates or graduate students who possess a basic familiarity with abstract algebra. The text treats a variety of topics from elementary number theory including the distribution of primes, sums of squares, continued factions, the Legendre, Jacobi and Kronecker symbols, the class group and genera. But the focus is on quadratic reciprocity (several proofs are given including one that highlights the p q symmetry) and binary quadratic forms. The reader will come away with a good understanding of what Gauss intended

in the Disquisitiones and Dirichlet in his Vorlesungen. The text also includes a lovely appendix by J. P. Serre titled ”±b2 4ac. The clarity of the author's vision is matched by the clarity of his exposition. This is a book that reveals the discovery of the quadratic core of algebraic number theory. It should be on the desk of every instructor of introductory number theory as a source of inspiration, motivation, examples, and historical insight.

Introduction to Number Theory

1. People were already interested in prime numbers in ancient times, and the first result concerning the distribution of primes appears in Euclid's Elemen ta, where we find a proof of their infinitude, now regarded as canonical. One feels that Euclid's argument has its place in The Book, often quoted by the late Paul ErdOs, where the ultimate forms of mathematical arguments are preserved. Proofs of most other results on prime number distribution seem to be still far away from their optimal form and the aim of this book is to present the development of methods with which such problems were attacked in the course of time. This is not a historical book since we refrain from giving biographical details of the people who have played a role in this development and we do not discuss the questions concerning why each particular person became in terested in primes, because, usually, exact answers to them are impossible to obtain. Our idea is to present the development of the theory of the distribu tion of prime numbers in the period starting in antiquity and concluding at the end of the first decade of the 20th century. We shall also present some later developments, mostly in short comments, although the reader will find certain exceptions to that rule. The period of the last 80 years was full of new ideas (we mention only the applications of trigonometrical sums or the advent of various sieve methods) and certainly demands a separate book.

The Development of Prime Number Theory

Originally published in 1934, this volume presents the theory of the distribution of the prime numbers in the series of natural numbers. Despite being long out of print, it remains unsurpassed as an introduction to the field.

The Distribution of Prime Numbers

Number theory is the branch of mathematics that is primarily concerned with the counting numbers. Of particular importance are the prime numbers, the 'building blocks' of our number system. The subject is an old one, dating back over two millennia to the ancient Greeks, and for many years has been studied for its intrinsic beauty and elegance, not least because several of its challenges are so easy to state that everyone can understand them, and yet no-one has ever been able to resolve them. But number theory has also recently become of great practical importance - in the area of cryptography, where the security of your credit card, and indeed of the nation's defence, depends on a result concerning prime numbers that dates back to the 18th century. Recent years have witnessed other spectacular developments, such as Andrew Wiles's proof of 'Fermat's last theorem' (unproved for over 250 years) and some exciting work on prime numbers. In this Very Short Introduction Robin Wilson introduces the main areas of classical number theory, both ancient and modern. Drawing on the work of many of the greatest mathematicians of the past, such as Euclid, Fermat, Euler, and Gauss, he situates some of the most interesting and creative problems in the area in their historical context. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Number Theory: A Very Short Introduction

An introductory textbook with a unique historical approach to teaching number theory The natural numbers have been studied for thousands of years, yet most undergraduate textbooks present number theory as a long list of theorems with little mention of how these results were discovered or why they are important. This book emphasizes the historical development of number theory, describing methods, theorems, and proofs in the contexts in which they originated, and providing an accessible introduction to one of the most fascinating subjects in mathematics. Written in an informal style by an award-winning teacher, Number Theory covers prime numbers, Fibonacci numbers, and a host of other essential topics in number theory, while also telling the stories of the great mathematicians behind these developments, including Euclid, Carl Friedrich Gauss, and Sophie Germain. This one-of-a-kind

introductory textbook features an extensive set of problems that enable students to actively reinforce and extend their understanding of the material, as well as fully worked solutions for many of these problems. It also includes helpful hints for when students are unsure of how to get started on a given problem. Uses a unique historical approach to teaching number theory Features numerous problems, helpful hints, and fully worked solutions Discusses fun topics like Pythagorean tuning in music, Sudoku puzzles, and arithmetic progressions of primes Includes an introduction to Sage, an easy-to-learn yet powerful open-source mathematics software package Ideal for undergraduate mathematics majors as well as non-math majors Digital solutions manual (available only to professors)

Number Theory

This edition has been called ‘startlingly up-to-date’, and in this corrected second printing you can be sure that it’s even more contemporaneous. It surveys from a unified point of view both the modern state and the trends of continuing development in various branches of number theory. Illuminated by elementary problems, the central ideas of modern theories are laid bare. Some topics covered include non-Abelian generalizations of class field theory, recursive computability and Diophantine equations, zeta- and L-functions. This substantially revised and expanded new edition contains several new sections, such as Wiles' proof of Fermat's Last Theorem, and relevant techniques coming from a synthesis of various theories.

Introduction to Modern Number Theory

Many of the important and creative developments in modern mathematics resulted from attempts to solve questions that originate in number theory. The publication of Emil Grosswald’s classic text presents an illuminating introduction to number theory. Combining the historical developments with the analytical approach, Topics from the Theory of Numbers offers the reader a diverse range of subjects to investigate.

Topics from the Theory of Numbers

This book provides an introduction and overview of number theory based on the distribution and properties of primes. This unique approach provides both a firm background in the standard material as well as an overview of the whole discipline. All the essential topics are covered: fundamental theorem of arithmetic, theory of congruences, quadratic reciprocity, arithmetic functions, and the distribution of primes. Analytic number theory and algebraic number theory both receive a solid introductory treatment. The book’s user-friendly style, historical context, and wide range of exercises make it ideal for self study and classroom use.

Number Theory

It is undeniable how prime numbers are one of the most beautiful and fascinating topics in mathematics. But what are prime numbers? Are they only numbers that are divisible by 1 and themselves, or do they have another interesting hidden face?Throughout history, the mystery of prime numbers has challenged the greatest minds in mathematics starting from Euclid of Alexandria to Fermat, Euler, Gauss, and ErdQs,… who attempted to solve the puzzling problem of primes. The achievements they realized and the secrets they revealed can only assert how deep the concept of prime numbers is. Starting from how prime numbers exist in nature, and how they are of great use in modern cryptography on which our daily life completely depends, the author travels in the holy kingdom of primes diving into some conjectures involving those special numbers. From the Riemann Hypothesis and the well-known zeta function, he explains how a note in the margin turned to be Fermat’s Last Theorem, one of the most important problems in the history of mathematics. From Mersenne Primes, he gets to the twin primes, those shining little stars in the blue sky of primes. And from Euclid’s proof of the infinite number of primes he gets to a hidden pattern in the distribution of primes discovered by StanisBaw Ulam and called the Ulam Spiral. After this little trip, you will know, dear reader, why prime numbers deserve to be called "the holy grail of mathematics".

Prime Numbers: The Holy Grail Of Mathematics

This book provides a good introduction to the classical elementary number theory and the modern algorithmic number theory, and their applications in computing and information technology, including

computer systems design, cryptography and network security. In this second edition proofs of many theorems have been provided, further additions and corrections were made.

Number Theory for Computing

Table of contents

The Prime Number Theorem

One of the oldest branches of mathematics, number theory is a vast field devoted to studying the properties of whole numbers. Offering a flexible format for a one- or two-semester course, Introduction to Number Theory uses worked examples, numerous exercises, and two popular software packages to describe a diverse array of number theory topi

Introduction to Number Theory

For one-semester undergraduate courses in Elementary Number Theory This title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit www.pearsonhighered.com/math-classics-series for a complete list of titles. A Friendly Introduction to Number Theory, 4th Edition is designed to introduce students to the overall themes and methodology of mathematics through the detailed study of one particular facet-number theory. Starting with nothing more than basic high school algebra, students are gradually led to the point of actively performing mathematical research while getting a glimpse of current mathematical frontiers. The writing is appropriate for the undergraduate audience and includes many numerical examples, which are analyzed for patterns and used to make conjectures. Emphasis is on the methods used for proving theorems rather than on specific results.

Friendly Introduction to Number Theory, a (Classic Version)

Aimed at a level between textbooks and the latest research monographs, this book is directed at researchers, teachers, and graduate students interested in number theory and its connections with other branches of science. Choosing to emphasize topics not sufficiently covered in the literature, the author has attempted to give as broad a picture as possible of the problems of analytic number theory.

Introduction to Analytic Number Theory

This two-volume book is a modern introduction to the theory of numbers, emphasizing its connections with other branches of mathematics. Part A is accessible to first-year undergraduates and deals with elementary number theory. Part B is more advanced and gives the reader an idea of the scope of mathematics today. The connecting theme is the theory of numbers. By exploring its many connections with other branches a broad picture is obtained. The book contains a treasury of proofs, several of which are gems seldom seen in number theory books.

Number Theory

In the modern age of almost universal computer usage, practically every individual in a technologically developed society has routine access to the most up-to-date cryptographic technology that exists, the so-called RSA public-key cryptosystem. A major component of this system is the factorization of large numbers into their primes. Thus an ancient number-theory concept now plays a crucial role in communication among millions of people who may have little or no knowledge of even elementary mathematics. The independent structure of each chapter of the book makes it highly readable for a wide variety of mathematicians, students of applied number theory, and others interested in both study and research in number theory and cryptography.

Prime Numbers and Computer Methods for Factorization

This book provides an overview of many interesting properties of natural numbers, demonstrating their applications in areas such as cryptography, geometry, astronomy, mechanics, computer science, and recreational mathematics. In particular, it presents the main ideas of error-detecting and error-correcting codes, digital signatures, hashing functions, generators of pseudorandom numbers, and the RSA method based on large prime numbers. A diverse array of topics is covered, from the properties and applications of prime numbers, some surprising connections between number theory and graph theory,

pseudoprimes, Fibonacci and Lucas numbers, and the construction of Magic and Latin squares, to the mathematics behind Prague's astronomical clock. Introducing a general mathematical audience to some of the basic ideas and algebraic methods connected with various types of natural numbers, the book will provide invaluable reading for amateurs and professionals alike.

From Great Discoveries in Number Theory to Applications

This valuable book focuses on a collection of powerful methods of analysis that yield deep number-theoretical estimates. Particular attention is given to counting functions of prime numbers and multiplicative arithmetic functions. Both real variable ("elementary") and complex variable ("analytic") methods are employed. The reader is assumed to have knowledge of elementary number theory (abstract algebra will also do) and real and complex analysis. Specialized analytic techniques, including transform and Tauberian methods, are developed as needed.Comments and corrigenda for the book are found at www.math.uiuc.edu/~diamond/.

Analytic Number Theory: An Introductory Course

Solutions of equations in integers is the central problem of number theory and is the focus of this book. The amount of material is suitable for a one-semester course. The author has tried to avoid the ad hoc proofs in favor of unifying ideas that work in many situations. There are exercises at the end of almost every section, so that each new idea or proof receives immediate reinforcement.

Elements of Number Theory

Geometry and the theory of numbers are as old as some of the oldest historical records of humanity. Ever since antiquity, mathematicians have discovered many beautiful interactions between the two subjects and recorded them in such classical texts as Euclid's Elements and Diophantus's Arithmetica. Nowadays, the field of mathematics that studies the interactions between number theory and algebraic geometry is known as arithmetic geometry. This book is an introduction to number theory and arithmetic geometry, and the goal of the text is to use geometry as the motivation to prove the main theorems in the book. For example, the fundamental theorem of arithmetic is a consequence of the tools we develop in order to find all the integral points on a line in the plane. Similarly, Gauss's law of quadratic reciprocity and the theory of continued fractions naturally arise when we attempt to determine the integral points on a curve in the plane given by a quadratic polynomial equation. After an introduction to the theory of diophantine equations, the rest of the book is structured in three acts that correspond to the study of the integral and rational solutions of linear, quadratic, and cubic curves, respectively. This book describes many applications including modern applications in cryptography; it also presents some recent results in arithmetic geometry. With many exercises, this book can be used as a text for a first course in number theory or for a subsequent course on arithmetic (or diophantine) geometry at the junior-senior level.

Number Theory and Geometry: An Introduction to Arithmetic Geometry

This book presents material suitable for an undergraduate course in elementary number theory from a computational perspective. It seeks to not only introduce students to the standard topics in elementary number theory, such as prime factorization and modular arithmetic, but also to develop their ability to formulate and test precise conjectures from experimental data. Each topic is motivated by a question to be answered, followed by some experimental data, and, finally, the statement and proof of a theorem. There are numerous opportunities throughout the chapters and exercises for the students to engage in (guided) open-ended exploration. At the end of a course using this book, the students will understand how mathematics is developed from asking questions to gathering data to formulating and proving theorems. The mathematical prerequisites for this book are few. Early chapters contain topics such as integer divisibility, modular arithmetic, and applications to cryptography, while later chapters contain more specialized topics, such as Diophantine approximation, number theory of dynamical systems, and number theory with polynomials. Students of all levels will be drawn in by the patterns and relationships of number theory uncovered through data driven exploration.

An Experimental Introduction to Number Theory

Number Theory Revealed: A Masterclass acquaints enthusiastic students with the "Queen of Mathematics". The text offers a fresh take on congruences, power residues, quadratic residues, primes, and Diophantine equations and presents hot topics like cryptography, factoring, and primality testing.

Students are also introduced to beautiful enlightening questions like the structure of Pascal's triangle mod p and modern twists on traditional questions like the values represented by binary quadratic forms, the anatomy of integers, and elliptic curves. This Masterclass edition contains many additional chapters and appendices not found in Number Theory Revealed: An Introduction, highlighting beautiful developments and inspiring other subjects in mathematics (like algebra). This allows instructors to tailor a course suited to their own (and their students') interests. There are new yet accessible topics like the curvature of circles in a tiling of a circle by circles, the latest discoveries on gaps between primes, a new proof of Mordell's Theorem for congruent elliptic curves, and a discussion of the abc-conjecture including its proof for polynomials. About the Author: Andrew Granville is the Canada Research Chair in Number Theory at the University of Montreal and professor of mathematics at University College London. He has won several international writing prizes for exposition in mathematics, including the 2008 Chauvenet Prize and the 2019 Halmos-Ford Prize, and is the author of Prime Suspects (Princeton University Press, 2019), a beautifully illustrated graphic novel murder mystery that explores surprising connections between the anatomies of integers and of permutations.

Number Theory Revealed: A Masterclass

Number theory is one of the few areas of mathematics where problems of substantial interest can be fully described to someone with minimal mathematical background. Solving such problems sometimes requires difficult and deep methods. But this is not a universal phenomenon; many engaging problems can be successfully attacked with little more than one's mathematical bare hands. In this case one says that the problem can be solved in an elementary way. Such elementary methods and the problems to which they apply are the subject of this book. Not Always Buried Deep is designed to be read and enjoyed by those who wish to explore elementary methods in modern number theory. The heart of the book is a thorough introduction to elementary prime number theory, including Dirichlet's theorem on primes in arithmetic progressions, the Brun sieve, and the Erdos-Selberg proof of the prime number theorem. Rather than trying to present a comprehensive treatise, Pollack focuses on topics that are particularly attractive and accessible. Other topics covered include Gauss's theory of cyclotomy and its applications to rational reciprocity laws, Hilbert's solution to Waring's problem, and modern work on perfect numbers. The nature of the material means that little is required in terms of prerequisites: The reader is expected to have prior familiarity with number theory at the level of an undergraduate course and a first course in modern algebra (covering groups, rings, and fields). The exposition is complemented by over 200 exercises and 400 references.

Not Always Buried Deep

One notable new direction this century in the study of primes has been the influx of ideas from probability. The goal of this book is to provide insights into the prime numbers and to describe how a sequence so tautly determined can incorporate such a striking amount of randomness. The book opens with some classic topics of number theory. It ends with a discussion of some of the outstanding conjectures in number theory. In between are an excellent chapter on the stochastic properties of primes and a walk through an elementary proof of the Prime Number Theorem. This book is suitable for anyone who has had a little number theory and some advanced calculus involving estimates. Its engaging style and invigorating point of view will make refreshing reading for advanced undergraduates through research mathematicians.

The Prime Numbers and Their Distribution

Now in its second edition, this textbook provides an introduction and overview of number theory based on the density and properties of the prime numbers. This unique approach offers both a firm background in the standard material of number theory, as well as an overview of the entire discipline. All of the essential topics are covered, such as the fundamental theorem of arithmetic, theory of congruences, quadratic reciprocity, arithmetic functions, and the distribution of primes. New in this edition are coverage of p-adic numbers, Hensel's lemma, multiple zeta-values, and elliptic curve methods in primality testing. Key topics and features include: A solid introduction to analytic number theory, including full proofs of Dirichlet's Theorem and the Prime Number Theorem Concise treatment of algebraic number theory, including a complete presentation of primes, prime factorizations in algebraic number fields, and unique factorization of ideals Discussion of the AKS algorithm, which shows that primality testing is one of polynomial time, a topic not usually included in such texts Many interesting ancillary topics, such as primality testing and cryptography, Fermat and Mersenne numbers, and

Carmichael numbers The user-friendly style, historical context, and wide range of exercises that range from simple to quite difficult (with solutions and hints provided for select exercises) make Number Theory: An Introduction via the Density of Primes ideal for both self-study and classroom use. Intended for upper level undergraduates and beginning graduates, the only prerequisites are a basic knowledge of calculus, multivariable calculus, and some linear algebra. All necessary concepts from abstract algebra and complex analysis are introduced where needed.

Number Theory

Since the pioneering work of Euler, Dirichlet, and Riemann, the analytic properties of L-functions have been used to study the distribution of prime numbers. With the advent of the Langlands Program, L-functions have assumed a greater role in the study of the interplay between Diophantine questions about primes and representation theoretic properties of Galois representations. This book provides a complete introduction to the most significant class of L-functions: the Artin-Hecke L-functions associated to finite-dimensional representations of Weil groups and to automorphic L-functions of principal type on the general linear group. In addition to establishing functional equations, growth estimates, and non-vanishing theorems, a thorough presentation of the explicit formulas of Riemann type in the context of Artin-Hecke and automorphic L-functions is also given. The survey is aimed at mathematicians and graduate students who want to learn about the modern analytic theory of L-functions and their applications in number theory and in the theory of automorphic representations. The requirements for a profitable study of this monograph are a knowledge of basic number theory and the rudiments of abstract harmonic analysis on locally compact abelian groups.

Advanced Analytic Number Theory: L-Functions

Number Theory: A Lively Introduction with Proofs, Applications, and Stories, is a new book that provides a rigorous yet accessible introduction to elementary number theory along with relevant applications. Readable discussions motivate new concepts and theorems before their formal definitions and statements are presented. Many theorems are preceded by Numerical Proof Previews, which are numerical examples that will help give students a concrete understanding of both the statements of the theorems and the ideas behind their proofs, before the statement and proof are formalized in more abstract terms. In addition, many applications of number theory are explained in detail throughout the text, including some that have rarely (if ever) appeared in textbooks. A unique feature of the book is that every chapter includes a math myth, a fictional story that introduces an important number theory topic in a friendly, inviting manner. Many of the exercise sets include in-depth Explorations, in which a series of exercises develop a topic that is related to the material in the section.

Number Theory

Number Theory Revealed: An Introduction acquaints undergraduates with the “Queen of Mathematics”. The text offers a fresh take on congruences, power residues, quadratic residues, primes, and Diophantine equations and presents hot topics like cryptography, factoring, and primality testing. Students are also introduced to beautiful enlightening questions like the structure of Pascal's triangle mod p p and modern twists on traditional questions like the values represented by binary quadratic forms and large solutions of equations. Each chapter includes an “elective appendix” with additional reading, projects, and references. An expanded edition, Number Theory Revealed: A Masterclass, offers a more comprehensive approach to these core topics and adds additional material in further chapters and appendices, allowing instructors to create an individualized course tailored to their own (and their students') interests.

Number Theory Revealed: An Introduction

Bridges the gap between theoretical and computational aspects of prime numbers Exercise sections are a goldmine of interesting examples, pointers to the literature and potential research projects Authors are well-known and highly-regarded in the field

Prime Numbers

This two-volume book is a modern introduction to the theory of numbers, emphasizing its connections with other branches of mathematics. Part A is accessible to first-year undergraduates and deals with elementary number theory. Part B is more advanced and gives the reader an idea of the scope of

mathematics today. The connecting theme is the theory of numbers. By exploring its many connections with other branches a broad picture is obtained. The book contains a treasury of proofs, several of which are gems seldom seen in number theory books.

Number Theory

This book presents a historical overview of number theory. It examines texts that span some thirty-six centuries of arithmetical work, from an Old Babylonian tablet to Legendre's Essai sur la Théorie des Nombres, written in 1798. Coverage employs a historical approach in the analysis of problems and evolving methods of number theory and their significance within mathematics. The book also takes the reader into the workshops of four major authors of modern number theory: Fermat, Euler, Lagrange and Legendre and presents a detailed and critical examination of their work.

Number Theory

Includes up-to-date material on recent developments and topics of significant interest, such as elliptic functions and the new primality test Selects material from both the algebraic and analytic disciplines, presenting several different proofs of a single result to illustrate the differing viewpoints and give good insight

An Introduction to Number Theory

Early in the development of number theory, it was noticed that the ring of integers has many properties in common with the ring of polynomials over a finite field. The first part of this book illustrates this relationship by presenting analogues of various theorems. The later chapters probe the analogy between global function fields and algebraic number fields. Topics include the ABC-conjecture, Brumer-Stark conjecture, and Drinfeld modules.

Number Theory in Function Fields

This book examines the application of complex analysis methods to the theory of prime numbers. In an easy to understand manner, a connection is established between arithmetic problems and those of zero distribution for special functions. Main achievements in this field of mathematics are described. Indicated is a connection between the famous Riemann zeta-function and the structure of the universe, information theory, and quantum mechanics. The theory of Riemann zeta-function and, specifically, distribution of its zeros are presented in a concise and comprehensive way. The full proofs of some modern theorems are given. Significant methods of the analysis are also demonstrated as applied to fundamental problems of number theory.

Complex Analysis in Number Theory

This volume presents research and expository papers highlighting the vibrant and fascinating study of irregularities in the distribution of primes. Written by an international group of experts, contributions present a self-contained yet unified exploration of a rapidly progressing area. Emphasis is given to the research inspired by Maier's matrix method, which established a newfound understanding of the distribution of primes. Additionally, the book provides an historical overview of a large body of research in analytic number theory and approximation theory. The papers published within are intended as reference tools for graduate students and researchers in mathematics.

Irregularities in the Distribution of Prime Numbers

Introduction to Number Theory

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