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This is the first work on Discrepancy Theory to show the present variety of points of view and applications covering the areas Classical and Geometric Discrepancy Theory, Combinatorial Discrepancy Theory and Applications and Constructions. It consists of several chapters, written by experts in their respective ...

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We discuss some of the ideas behind the study of upper bound questions in classical discrepancy theory. The many ideas involved come from diverse areas of mathematics and include diophantine approximation, probability theory, number theory and various forms of Fourier analysis.

Panorama of discrepancy theory

by W Chen · 2014 · Cited by 68 — Cham : Springer, Springer Nature, 2014. 695 p. (Lecture notes in mathematics). ... Panorama of discrepancy theory. / Chen, William (Editor); Srivastav, Anand (Editor); Travaglini, Giancarlo (Editor). Cham: Springer, Springer Nature, 2014. 695 p. (Lecture notes in mathematics; Vol. 2107).

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Discrepancy theory concerns the problem of replacing a continuous object with a discrete sampling and is currently located at the crossroads of number theory, combinatorics, Fourier analysis, algorithms and complexity, probability theory and numerical analysis.

A Panorama of Discrepancy Theory

Bibliographic information ; Title, A Panorama of Discrepancy Theory Volume 2107 of Lecture Notes in Mathematics ; Editors, William Chen, Anand Srivastav, Giancarlo Travaglini ; Edition, illustrated ; Publisher, Springer International Publishing, 2014 ; ISBN, 3319046977, 9783319046976.

A Panorama of Discrepancy Theory

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A Panorama of Discrepancy Theory

A Panorama of Discrepancy Theory. Published by. Lecture Notes in Mathematics, January 2014. DOI, 10.1007/978-3-319-04696-9. ISBNs. 978-3-31-904695-2, 978-3-31-904696-9. Authors. William Chen, Anand Srivastav, Giancarlo Travaglini. Editors. Chen, William, Srivastav, Anand, Travaglini, Giancarlo. View on publisher ...

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A Panorama of Discrepancy Theory (Lecture Notes in Mathematics #2107). William Chen (Editor), Anand Srivastav (Editor), Giancarlo Travaglini (Editor). Current price: \$68.74. Publication Date: October 20th, 2014. Publisher: Springer.

Ti Niko

Réputée pour ses musiciens et ses peintres, la République Démocratique du Congo constitue également l'un des pays les plus florissants du continent africain en matière de bande dessinée. Celle-ci a fait son apparition dans les journaux du pays en 1921 et n'a jamais cessé de se développer. Depuis l'épopée flamboyante de la revue Jeunes pour jeunes en 1969 jusqu'à la réussite de Pat Masioni aux Etats-Unis en passant par Barly Baruti, premier Congolais à publier en Europe ou Mongo Sise, collaborateur du studio Hergé, la saga de la BD congolaise est ponctuée d'événements cocasses et riche de talents individuels. L'auteur revient sur cette histoire méconnue tout au long de ces 285 pages remplies d'illustrations.

Histoire de la bande dessinée congolaise

Includes, 1982-1995: Les Livres du mois, also published separately.

Livres hebdo

Filmatised in 2013 and the official recipient of three Oscars, Solomon Northup's powerful slave narrative 'Twelve Years a Slave' depicts Northup's life as he is sold into slavery after having spent 32 years of his life living as a free man in New York. Working as a travelling musician, Northup goes to Washington D.C, where he is kidnapped, sent to New Orleans, and sold to a planter to suffer the relentless and brutal life of a slave. After a dozen years, Northup escapes to return to his family and pulls no punches, as he describes his fate and that of so many other black people at the time. It is a harrowing but vitally important book, even today. For further reading on this subject, try 'Uncle Tom's Cabin' by Harriet Beecher Stowe. Solomon Northup (c.1807-c.1875) was an American abolitionist and writer, best remembered for his powerful race memoir 'Twelve Years a Slave'. At the age of 32, when he was a married farmer, father-of-three, violinist and free-born man, he was kidnapped in Washington D.C and shipped to New Orleans, sold to a planter and enslaved for a dozen years. When he gained his freedom, he wrote his famous memoir and spent some years lecturing across the US, on behalf of the abolitionist movement. 'Twelve Years a Slave' was published a year after 'Uncle Tom's Cabin' by Harriet Beecher Stowe and built on the anti-slavery momentum it had developed. Northup's final years are something of a mystery, though it is thought that he struggled to cope with family life after being freed.

Livres de France

This volume appears now finally in English, sixty years after the death of its author, Lucien Tesnière. It has been translated from the French original into German, Spanish, Italian, and Russian, and now at long last into English as well. The volume contains a comprehensive approach to the syntax of natural

languages, an approach that is foundational for an entire stream in the modern study of syntax and grammar. This stream is known today as dependency grammar (DG). Drawing examples from dozens of languages, many of which he was proficient in, Tesnière presents insightful analyses of numerous phenomena of syntax. Among the highlights are the concepts of valency and head-initial vs. head-final languages. These concepts are now taken for granted by most modern theories of syntax, even by phrase structure grammars, which represent, in a sense, the opposite sort of approach to syntax from what Tesnière was advocating. Now Open Access as part of the Knowledge Unlatched 2017 Backlist Collection.

Index of Research Results

The Medieval Warm Period and the Little Ice Age are widely considered to have been the major features of the Earth's climate over the past 1000 years. In this volume the issue of whether there really was a Medieval Warm Period, and if so, where and when, is addressed. The types of evidence examined include historical documents, tree rings, ice cores, glacial-geological records, borehole temperature, paleoecological data and records of solar receipts inferred from cosmogenic isotopes. Growth in the availability of several of these types of data in recent years, and technical advances in their derivation and use, warrant this state-of-the-art re-examination of Medieval Warm Period. The book will be of value to all those with an interest in the natural variability of the climate system, for example those concerned with anticipating and detecting anthropogenic climate change.

Twelve Years a Slave

The protagonist of the series is a boy named Sam. Together with his dog/best friend they explore the beautiful island of Mauritius on the first of one of their many adventures. On their journey, they uncover a lot of secrets, mysteries and surprises. The story is partly fictional and partly factional as many of these experiences were a once in a lifetime situation. Throughout the series, Sam who is seemingly normal discovers that he has superhero powers of the body, mind and soul. As he follows his journey, he uncovers his powers as it unlocks new abilities and realms that he had thought was never possible to travel to.

Elements of French Grammar

Nonfiction. "This is not just the biography of a talented jazz musician, but a fascinating chronicle of the trials, tribulations, and triumphs of a few committed individuals who tried to create beauty in a land of hostility and segregation. Chris McGregor understood that music is more than an organization of sound, it is a measure of human relationships, and can be used to inspire and exhilarate as well as heal. Maxine McGregor's vivid descriptions of their world, and the many passages in Chris's own words, give us insight into the mind of a man for whom music was as natural and necessary as the air we breathe"--Art Lange (co-editor of *Moment's Notice: Jazz in Poetry and Prose*).

Elements of Structural Syntax

Situated along the Senegal River, the Kingdom of Waalo was the smallest of the Wolof states of Senegal, but it illustrates the broader consequences of a shift from trans-Saharan to trans-Atlantic commerce during a time of competing European, Muslim, and indigenous African forces. From the establishment of a French trading post in 1659 to the early nineteenth century, the history of Waalo was closely tied to French interests in St. Louis, popular revolutionary Islamic movements, and internal rivalries between competing royal families and provincial leaders. Stimulating Waalo's socio-political changes were the devastations and fluctuations of the Atlantic slave trade, as well as the Muslim attack on its aristocracy. Torn by internal divisions, devastated by French and Berber incursions, Waalo's institutions and its economy declined. Residents of Waalo sought their own solutions only for external agents to ruin their efforts. By the nineteenth century, the French attempted to establish a plantation economy in Waalo, culminating in their military control of the state and the Senegal valley. This newly translated study is a vital tool in our understanding of Senegal's history, its place in the era of trans-Saharan and trans-Atlantic commerce, and its development into the present. The book should be of value to African studies scholars, anthropologists, and historians of Africa, colonialism, empire, and post-colonialism.

The Medieval Warm Period

In contemporary philosophy, substantive moral theories are typically classified as either consequentialist or deontological. Standard consequentialist theories insist, roughly, that agents must always act so as to produce the best available outcomes overall. Standard deontological theories, by contrast, maintain that there are some circumstances where one is permitted but not required to produce the best overall results, and still other circumstances in which one is positively forbidden to do so. Classical utilitarianism is the most familiar consequentialist view, but it is widely regarded as an inadequate account of morality. Although Professor Scheffler agrees with this assessment, he also believes that consequentialism seems initially plausible, and that there is a persistent air of paradox surrounding typical deontological views. In this book, therefore, he undertakes to reconsider the rejection of consequentialism. He argues that it is possible to provide a rationale for the view that agents need not always produce the best possible overall outcomes, and this motivates one departure from consequentialism; but he shows that it is surprisingly difficult to provide a satisfactory rationale for the view that there are times when agents must not produce the best possible overall outcomes. He goes on to argue for a hitherto neglected type of moral conception, according to which agents are always permitted, but not always required, to produce the best outcomes.

The SugarCane Boy

This is the most comprehensive treatment of a significant episode of the historical avant-garde period to which many refer but with little concrete background. According to Charlotte Douglas (Russian and Slavic Studies, NYU), Zaum "is an encyclopedic account of zaum or 'beyond sense,' the most distinctive feature of Russian avant-garde art and poetry early in the 20th century. Janecek has mined a myriad of arcane and inaccessible sources, gathered the entire historical record in one place, and made it readable and comprehensible. His account of zaum theory and practice will be indispensable for anyone interested in modern poetry and art. Certainly it will become a standard text for all students of Russian Futurism."

Agathiae Myrinaei Historiarum Libri Quinque

This book is a volume in the Penn Press Anniversary Collection. To mark its 125th anniversary in 2015, the University of Pennsylvania Press rereleased more than 1,100 titles from Penn Press's distinguished backlist from 1899-1999 that had fallen out of print. Spanning an entire century, the Anniversary Collection offers peer-reviewed scholarship in a wide range of subject areas.

Boswelliana

Twenty-seven stories by a Serbian writer, many dealing with the destruction of the European Jewish culture in World War II. Others are surrealistic, such as Plastic Combs, whose protagonists are able to talk with inanimate matter.

Chris McGregor and the Brotherhood of Breath

An irreverent and charming collection of deeply personal essays about the joys of low pop culture and bad taste, exploring coming of age in the 2000s in the age of Hot Topic, Creed, and frosted lip gloss—from the James Beard Award-nominated writer of the Catapult column "Store-Bought Is Fine" Tacky is about the power of pop culture—like any art—to imprint itself on our lives and shape our experiences, no matter one's commitment to "good" taste. These fourteen essays are a nostalgia-soaked antidote to the millennial generation's obsession with irony, putting the aesthetics we hate to love—snakeskin pants, Sex and the City, Cheesecake Factory's gargantuan menu—into kinder and sharper perspective. Each essay revolves around a different maligned (and yet, Rax would argue, vital) cultural artifact, providing thoughtful, even romantic meditations on desire, love, and the power of nostalgia. An essay about the gym-tan-laundry exuberance of Jersey Shore morphs into an excavation of grief over the death of her father; in "You Wanna Be On Top," Rax writes about friendship and early aughts girlhood; in another, Guy Fieri helps her heal from an abusive relationship. The result is a collection that captures the personal and generational experience of finding joy in caring just a little too much with clarity, heartfelt honesty, and Rax King's trademark humor. A VINTAGE ORIGINAL

The Kingdom of Waalo

Jean-Claude Servan-Schreiber enlisted in the French army at the outset of World War II and quickly rose to the rank of lieutenant. Despite his patriotism and courage in defending his country, in which

he narrowly escaped death several times, he suffered the bigotry of his fellow soldiers until he was expelled from the army for being Jewish. He sought exile in Spain and was deported and interned in a concentration camp before he managed to join the Allied army in North Africa. He eventually participated in the triumphant liberation of his homeland. His story, almost forgotten, would have remained unknown if not for the efforts of the award-winning and internationally bestselling author Andrei Makine. Retelling Servan-Schreiber's dramatic life with a novelist's skill, he reveals a man who embraced experience in all its joys and sorrows, who knew the pleasures of love amid the savagery of war, and who could forgive the hatred he was subjected to but never forget it. In Servan-Schreiber, who is now nearly a centenarian, Makine celebrates virtues that every citizen should be reminded of: self-sacrifice, honor, love of country, and true heroism.

The Rejection of Consequentialism

You're no idiot, of course. Money's always on your mind; if you're not working to make more, you're wondering where it all went. Will you have to give up movies and CDs to get your bank account to grow? Play it smart and you can have it all! Whether you're saving for something big like college or wondering why you're always broke, this info-packed book has the answers you need. 'The Complete Idiot's Guide to Money for Teens' can show you how to: -Stop the bleeding! Easy ways to get a grip on your expenses. -Make sense of bank and credit card statements. -Work wise and shop smart; get the most of your money. -Pay less for the things you buy - even designer labels! -Learn what it takes to be a teen entrepreneur.

Zaum

Essays, stories and a play set in Yugoslavia. The title piece, written by Dubravka Ugresic, is a satire on murderous folklore, while Bogdan Bogdanovic's The City of Death is on Belgrade.

The Continuations of the Old French Perceval of Chrétien de Troyes, Volume 2

Theodor Seuss Geisel Honor Award winner! "What do you get when you cross a crusty alligator and a perky bird? A surprising friendship you'll be sure to cheer for. Beak and Ally is a warm, funny winner!" —Terri Libenson, author of the New York Times bestselling Emmie & Friends series A brand-new early reader graphic novel series about finding friendship in unexpected places! This fun and funny buddy comedy is perfect for fans of Narwhal & Jelly, emerging readers, and all kids who love comics. Ally the alligator is perfectly happy being alone . . . until one day a noisy bird named Beak lands on her snout. Beak thinks Ally is lonely and needs a friend. He has all sorts of friendship goals in mind, like riding bikes together, going to the movies together, and even solving mysteries together! But when a Long-Billed Party Pooper crashes Beak's nest-warming party, Ally decides to show Beak something important to her: sticking up for what's right.

Words Are Something Else

Poetry. Women's Studies. Essay. Translation Theory. Translated from the German by Sophie Seita. "This bi-floral or even tri-floral book of poems is for falselandy neighbouring nearspeakers who prefer to hold ear to phoneme to wit. Arranged according to the pleasures of a collaborative conversation between co-translating poets, sinuous between the structured palate and the muscular tongue, Subsisters coheres by means of a joyous principle of augmentation. Wolf and Seita have rendered authority moot; Value here is chosen conviviality. Lightness, charm and play clarify the discovery that all language is polylingual, all worth in shared joy only."--Lisa Robertson

Tacky

Writing is one of humankind's greatest inventions, and modern societies could not function if their citizens could not read and write. How do skilled readers pick up meaning from markings on a page so quickly, and how do children learn to do so? The chapters in the Oxford Handbook of Reading synthesize research on these topics from fields ranging from vision science to cognitive psychology and education, focusing on how studies using a cognitive approach can shed light on how the reading process works. To set the stage, the opening chapters present information about writing systems and methods of studying reading, including those that examine speeded responses to individual words as well as those that use eye movement technology to determine how sentences and short passages of text are processed. The following section discusses the identification of single words by skilled readers,

as well as insights from studies of adults with reading disabilities due to brain damage. Another section considers how skilled readers read a text silently, addressing such issues as the role of sound in silent reading and how readers' eyes move through texts. Detailed quantitative models of the reading process are proposed throughout. The final sections deal with how children learn to read and spell, and how they should be taught to do so. These chapters review research with learners of different languages and those who speak different dialects of a language; discuss children who develop typically as well as those who exhibit specific disabilities in reading; and address questions about how reading should be taught with populations ranging from preschoolers to adolescents, and how research findings have influenced education. The Oxford Handbook of Reading will benefit researchers and graduate students in the fields of cognitive psychology, developmental psychology, education, and related fields (e.g., speech and language pathology) who are interested in reading, reading instruction, or reading disorders.

The Mole Men

This highly original and personal exploration of Tadao Ando's work, one of Japan's leading architects, traverses both the physical and spiritual world. In 2012, Philippe Seclier visited Tadao Ando's iconic Church of the Light, and was immediately compelled to journey around the world to further study the architect's buildings. This unique presentation of Ando's work is the result of what turned into a nine-year project to photograph 130 buildings. Walking around each structure, trying to find the proper framing, helped Seclier understand Ando's genius for siting and composition. Loosely organized by chronology, each building is represented in numerous black and white images, arranged like a mosaic on the page. These fragmented views correspond to Ando's own philosophy of the logic of structure and geometry. This "atlas" embraces not only the geographic but also thematic range of Ando's oeuvre—from transit stations in Tokyo and Kobe to art museums in Fort Worth, Texas and Provence, France; from an artists' retreat on the Mexican coast to the now-demolished Piccadilly Gardens in Manchester, England; from a theater in Milan, Italy, to an upscale restaurant in New York City. Seclier's photographs of Ando's numerous religious structures brilliantly illustrate his use of light and shadow to evoke spiritual depth and timelessness while his short texts offer concise observations of each building. A helpful appendix pinpoints the geographic diversity and range of Ando's oeuvre.

Lieutenant Schreiber's Country

Keine ausführliche Beschreibung für "Meaning and the lexicon" verfügbar.

The Complete Idiot's Guide to Money for Teens

A shrewd, laugh-out-loud parody of E. L. James's bestselling "Fifty Shades" series.

Balkan Blues

Hieronymus Bosch (1450-1516) is, without any doubt, one of the most famous artists in the history of Netherlandish painting. This book explores his best-known paintings and drawings, showing them as never before in stunning, full-page details. It is organized by characteristic themes in Bosch's work, such as faces, heaven and hell, the four elements, landscapes, and creatures both fantastic and monstrous. Readers are treated to an exceptional view of masterpieces like The Garden of Earthly Delights, The Haywain Triptych, The Temptation of St Anthony and The Seven Deadly Sins. Till-Holger Borchert, Director of the Bruges Museums and an expert on Netherlandish art, guides us through the painter's oeuvre in clear and accessible language, and from less familiar and surprising angles.

GENOME BIOPHYSICS.

Plant genetic engineering has revolutionized our ability to produce genetically improved plant varieties. A large portion of our major crops have undergone genetic improvement through the use of recombinant DNA techniques in which microorganisms play a vital role. The cross-kingdom transfer of genes to incorporate novel phenotypes into plants has utilized microbes at every step—from cloning and characterization of a gene to the production of a genetically engineered plant. This book covers the important aspects of Microbial Biotechnology in Agriculture and Aquaculture with an aim to improve crop yield.

Beak & Ally #1: Unlikely Friends

In this quiet, subdued tale, a middle-aged office worker, divorced and alienated from his only son, meets up with two childhood friends who are similarly adrift, without passions or prospects. He's looking for a second act to his mournful life, seeking the harbor of love and a true connection with his son.

Subsisters

A collection of the stories, legends, and rituals surrounding Christmas, featuring colorfully illustrated lithographs. This festive follow-up to *The Little Book of Saints* and *The Little Book of Angels* explores the wonderful rituals and rich history surrounding Christmas. From the story of the nativity to the legends that have inspired beloved holiday traditions (like why Father Christmas arrives through the chimney), this collection includes Christmas customs from around the world. Beautifully illustrated with color lithographs taken from missals and prayer books, this joyful little book is a Christmas treasure for the whole family to gather around year after year.

The Oxford Handbook of Reading

"The book that best describes how an Islamic Fundamentalist is formed." *New York Times* How does a handsome young man who keeps company with poets and dreams of fame and fortune in the movie business turn into a brutal killer who massacres women and children without turning a hair? The story follows Nafa Walid, heart-throb of the Casbah, as he gradually loses control of his destiny and becomes drawn into the Islamic Fundamentalist movement. *Wolf Dreams* illustrates what happens when disillusion intersects with the persuasive voice of fundamentalism and the chaos of civil war.

Atlas: Tadao Ando

While on a school trip to Edinburgh, Scotland, sixteen-year-old Scarlett is reunited with Callum McAndrew, as well as her former St. Tabby's cohorts, providing plenty of suspects when she is targeted in a series of attacks.

Meaning and the lexicon

He's a down-on-his-luck janitor with aspirations of writing the great American trash novel. She's the spoiled, sharp-tongued boss's daughter, always looking for a creative way to spice up her boring life. Normally, these two would never meet, but a higher power has different plans for both of them. The major motion picture from 20th Century Fox starring Ewan McGregor, Cameron Diaz and Holly Hunter hits the box office in October.

Fifty Shames of Earl Grey

Poems.

Bosch in Detail

GENERAL FICTION (CHILDREN'S / TEENAGE). London is dirty, distant and dangerous ...but that's where orphan Tom Falconer is heading. And he's got a whole assortment of vicious criminals hot on his heels. Tom is helpless and alone until he meets Moll Cutpurse, a thirteen-year-old pickpocket. Together they find themselves chased across the city by the murderous Ratsey. But it's only on the first night of a new play - *The Devil and his Boy* - that Tom realizes that the fate of the Queen and indeed the entire country rests in his hand. Ages 9+

Principles of Plant Virology

A soft, snuggly book, with cushiony padded pages in bold, bright colours featuring Maisy and her favourite friends. Suitable for a parent and baby to share at bedtime - or any time - it offers a special introduction to a whole world of pleasure through reading.

Guys Like Me

The Little Book of Christmas

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Collagen Banking
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 Collagen Myth #2 - sups don't work
 Collagen Myth #3 — vit c
 Liquid collagen vs collagen powder
 Why you can't trust online "studies"
 Do collagen peptides really work?
 What to look for in a collagen supplement
 What Collagen I take and how I take it
 Do at home devices work?
 Best diet for collagen
 Drugstore collagen creams
 Tretinoin for Collagen
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Something Extraordinary That Pfizer Don't Want You To Know by Russell Brand 136,264 views 12
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at 51 | My healthy aging and skincare routine by The Honest Channel 4,771 views 13 hours ago 20
minutes - In this video I'll talk you through the skincare routine that has given me my healthiest skin
in my 50s! Plus I'll share the four pillars ...

Intro
Skincare evening
Morning skincare
Anti-aging devices and treatments
The four pillars of healthy aging

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with a review of the pi ...

Lesson Introduction
Review of the Pi Molecular Orbitals of Ethylene

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that you're trying to create
makes a big difference
affects a vast amount of people

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Non Euclidean Geometry

Euclidean Geometry

The Parallel Postulate

Violate the Parallel Postulate

Hyperbolic Geometry in Parallel

Great Circles on a Sphere

The Metric

Differential Geometry

Pythagoras Theorem

Parallel Transport of Vectors

This Is like a Little Machine at every Point It's a Black Box That Says if You Give Me these Three Vectors I'M GonNa Spit Out a Fourth Vector and We Have a Name for this Machine this Is Called the Riemann Curvature Tensor and Again no One's GonNa Tell You this until You Take General Relativity or You Listen to these Videos so a Tensor Is a Generalization of the Idea of a Vector You Know the Vector Is a Set of Components a Tensor Is a Bigger Collection of no Arranged Either in Columns or Rows or Matrices or Cubes or Something like that but It's a Whole Big Kind of Set of Numbers That Can Tell You a Map from a Set of Vectors to another Set of Vectors That's all It Is It's a Way of Mapping Vectors to Vectors and the Riemann Curvature Tensor Is this Particular Map

Either in Columns or Rows or Matrices or Cubes or Something like that but It's a Whole Big Kind of Set of Numbers That Can Tell You a Map from a Set of Vectors to another Set of Vectors That's all It Is It's a Way of Mapping Vectors to Vectors and the Riemann Curvature Tensor Is this Particular Map so the Riemann Curvature Tensor Specifies at every Point at every Point You Can Do this You Give Me a Point I'M Going To Give You Two Different Vectors I'M Going To Track Parallel Transport around a Third Vector and See How Much It Moves by that's the Value of the Riemann Curvature Tensor Which Tells Me What Is the Distance along an Infinitesimal Path the Metric Exists at every Point It's a Field That Can Take On Different Value the Connection Is the Answer to How Does How Do I Parallel Transport Vectors and It Is Also a Field So at every Point I Have a Way of Parallel Transporting Vectors in every Direction so It's a Complicated Mathematical Object and I Call that a Connection if You Just Want To Think about What Do You Mean by a Connection It's a Field That Tells Me How To Parallel Transport Things It Conveys that Information What Does It Mean To Keep Things Constant To Keep Things Parallel

And It all Fits Together a Nice Geometric Bundle in Fact You Know When We Thought about Newtonian Physics versus the Principle of Least Action the Newtonian Laplacian Way of Thinking about the Laws of Physics Was Start with a Point and Just Chug Forward Using $F = ma$ You Get

the Same Answers Doing Things that Way as You Do with the Principle of Least Action Which Says Take the Whole Path and Minimize the Action along the Path You Might Think Is this Analogous to these Two Different Ways of Defining Straight Lines the Whole Path and Find the Minimum Length or Parallel Transport Your Direction Your Momentum Vector and the Answer Is Yes They Are a Hundred Percent Completely Analogous It's the Differential Version versus the Integral Version if You Want To Think about It that Way

You Might Think Is this Analogous to these Two Different Ways of Defining Straight Lines the Whole Path and Find the Minimum Length or Parallel Transport Your Direction Your Momentum Vector and the Answer Is Yes They Are a Hundred Percent Completely Analogous It's the Differential Version versus the Integral Version if You Want To Think about It that Way Okay so that's Geometry for You There It Is that's all You Need To Know Everything Else Is Derived from that in some Sense but the Derivations Might Be Hard Next We'Re on to Topology Topology Is Sort of the Opposite in some Sense of What We'Ve Been Doing So What We'Ve Been Doing Is Working Really Hard To Figure Out How at every Point To Characterize the To Answer the Question How Curved Is this Space That We'Re Living in Topology Doesn't Care about the Curvature of Space at every Point at all Topology Is the Study Properties of Spaces

Deform a Sphere into a Torus

And I CanNot Deform One into the Other I CanNot Do that Smooth Movement of the Circle in this Plane That Doesn't Go through the Point so these Are Topologically Different Okay so the Fundamental Group of the Plane Is Just Trivial It's Just One Element There's Only One Way To Map a Circle into the Plane but the Plane-a Point I Clearly Have Different Ways this Orange Curve I Can Deform Back to the Identity and by the Way I Should Mention this There's a Sense There's a Direction so the Circle Has a Clockwise Nisour Anti-Clockwise Ness Notion So Let Me Draw that I've Drawn It this Way I Can that's that's a Different Topological

Okay I CanNot Deform the Loops That Go Around Twice to either the Loops That Go Around Once or the Loops That Go Around Zero Times What this Means Is They Put Braces around Here so You Know that this Is the Space I'M Mapping It to the Fundamental Group of the Plane-a Point Is Characterized by Something We Call the Winding Number of the Map We Have all Sorts of Ways of Mapping the Circle into this Space and all That Matters topologically Is How Many Times the Circle Wraps around Winds around that Point so the Winding Number Could Be 0 for the Orange Curve It Could Be 1 for the Yellow Curve It Could Be 2 for the Green Curve

That's Why It's Called a Group because You Can Add Integers Together We'Li Get Later to What the Technical Definition Is Well What I Mean by Group but the Point Is this Is a Top this Feature of the Space Is a Topological Invariant and the Feature Is Quote-Unquote the Integers the Integers Classify the Winding Numbers the First the Fundamental Group of the Plane so We Can Do that with Other Spaces Right What about the Sphere so What We'Re the to the 2-Dimensional Sphere in this Case Right So Actually Then Let's Do the One Dimensional Sphere Why We'Re at It

And those Are Different Things That Green Circle and that Orange Circle CanNot Be Continuously Deformed into each Other There's Basically Two Distinct Topological Ways of Wrapping a and the Taurus and Once I Wrap Around once I Can Wrap around any Number of Times so that Is a Very Quick Hand Wavy Demonstration of the Fact that Pi One of the Tourists Is $\mathbb{Z}$ plus $\mathbb{Z}$ It's Two Copies of the Integers Two Different Winding Numbers How Do You Wind around this Way How Do You Wind around that Way so You Might Think You Might Think for these Brief Numbers of Examples That the Fundamental Group Pi One of any Space Is either Zero or It's the Integers or some Copy of the Integers

I Get another Curve That Is Deformable to Zero Right That Doesn't Wind At All and that's a That's a Perfectly Good Reflection of the Fact that in the Integers $\mathbb{Z}$ Has the Property That plus 1 Plus minus 1 Equals Zero Right Not a Very Profound Mathematical Fact but There It Is So if that Were True if It Were True that the Same Kind of Thing Was Happening in this Doubly Punctured Plane I Should Be Able To Go around a and Then around B and Then I Should Be Able To Go Backward around a and Backward around B and I Should Be Equivalent to Not Doing Anything At All but that's Not Actually What Happens Let's See It's Unlikely I Can Draw this in a Convincing Way but Backward

And It Comes Out but Then It's GonNa Go Up Here so that Means It Comes Over There That Goes to that I'M GonNa Keep Going so You Can See What's Happening Here My Base Point Is Fixed but I Have this So I'M Going To Make It Go Down and that's GonNa Go Up this Is GonNa Go like this I'M GonNa Keep Going and Then I Can Just Pull this All the Way through So in Other Words I Can Contract this Down to Zero I Hope that that's Followed What I Did Here if I Call this Aabb this Is Aa the Be Aa the Be Aabb and They Just Contract Right Through

Neural manifolds - The Geometry of Behaviour - Neural manifolds - The Geometry of Behaviour by

Artem Kirsanov 259,251 views 2 years ago 23 minutes - This video is my take on 3B1B's Summer of Math Exposition (SoME) competition It explains in pretty intuitive terms how ideas from ...

Introduction

Brief neuroscience background

Topology and the notion of a manifold

Dimension of a manifold

Number of holes (genus)

Putting it all together

Lecture 2: Topological Manifolds (International Winter School on Gravity and Light 2015) - Lecture 2:

Topological Manifolds (International Winter School on Gravity and Light 2015) by The WE-Heraeus

International Winter School on Gravity and Light 158,133 views 9 years ago 1 hour, 23 minutes - As

part of the world-wide celebrations of the 100th anniversary of Einstein's theory of general relativity

and the International Year ...

Jim Simons: A Short Story of My Life and Mathematics (2022) - Jim Simons: A Short Story of

My Life and Mathematics (2022) by The Abel Prize 466,679 views 1 year ago 16 minutes - Watch

mathematician, hedge fund manager and philanthropist Jim Simons give a short story of his life and

mathematics. This talk ...

The Meaning of the Metric Tensor - The Meaning of the Metric Tensor by Dialect 194,759 views 1

year ago 19 minutes - In the follow-up to our prior video, Demystifying the Metric Tensor, we continue

to explore the physical and conceptual intuition ...

Introduction

Spacetime Cartography

Maps / Coordinate Systems

Bar Scales / Metrics

Spacetime Distance

Topological Transformations

The 2D Metric

The 3D Metric

Conclusion

Four Minutes With Terence Tao - Four Minutes With Terence Tao by Simons Foundation 699,527

views 5 years ago 4 minutes, 7 seconds - We ask the 2006 Fields Medalist to talk about his love of

mathematics, his current interests and his favorite planet. More details: ...

Lecture 1 | Introduction to Riemannian geometry, curvature and Ricci flow | John W. Morgan - Lecture

1 | Introduction to Riemannian geometry, curvature and Ricci flow | John W. Morgan by 5:B>@8C< 117,41

views 10 years ago 58 minutes - Lecture 1 | **On the Introduction to Riemannian geometry**., curvature and

Ricci flow, with applications to the topology of 3-dimensional ...

The Riemann Hypothesis, Explained - The Riemann Hypothesis, Explained by Quanta Magazine

5,048,915 views 3 years ago 16 minutes - The **Riemann**, Hypothesis is the most notorious unsolved

problem in all of mathematics. Ever since it was first proposed by ...

A glimpse into the mystery of the Riemann Hypothesis

The world of prime numbers

Carl Friedrich Gauss looks for primes, Prime Counting Function

Logarithm Function and Gauss's Conjecture

Leonard Euler and infinite series

Euler and the Zeta Function

Bernhard Riemann enters the prime number picture

Imaginary and complex numbers

Complex Analysis and the Zeta Function

Analytic Continuation: two functions at work at once

Zeta Zeros and the critical strip

The critical line

Why the Riemann's Hypothesis has a profound consequence to number theory

Riemann's Hypothesis shows the distribution of prime numbers can be predicted

The search for a proof of the Riemann Hypothesis

Tensors Explained Intuitively: Covariant, Contravariant, Rank - Tensors Explained Intuitively: Covari-

ant, Contravariant, Rank by Physics Videos by Eugene Khutoryansky 1,139,224 views 6 years ago

11 minutes, 44 seconds - Tensors of rank 1, 2, and 3 visualized with covariant and contravariant

components. My Patreon page is at ...

Describing a vector in terms of the contra-variant components is the way we usually describe a

vector.

Because both quantities vary in the same way, we refer to this by saying that these are the "co-variant" components for describing the vector.

We can distinguish the variables for the co-variant" components from variables for the "contra-variant components by using subscripts instead of super-scripts for the index values.

What makes a tensor a tensor is that when the basis vectors change, the components of the tensor would change in the same manner as they would in one of these objects.

is a vector.

instead of associating a number with each basis vector, we associate a number with every possible combination of two basis vectors.

we associate a number with every possible combination of three basis vectors.

Riemann Hypothesis - Numberphile - Riemann Hypothesis - Numberphile by Numberphile 5,545,226 views 10 years ago 17 minutes - Featuring Professor Edward Frenkel. Here is the biggest (?) unsolved problem in maths... The **Riemann**, Hypothesis. More links ...

Intro

Riemann Zero Function

Basel Problem

The famous sum

Complex numbers

General numbers

Real and complex numbers

Convergent

analytic continuation

zeta

achilles heel

critical strip

human hypothesis

Tensor Calculus 22: Riemann Curvature Tensor Geometric Meaning (Holonomy + Geodesic Deviation) - Tensor Calculus 22: Riemann Curvature Tensor Geometric Meaning (Holonomy + Geodesic Deviation) by eigenchris 100,336 views 4 years ago 29 minutes - If you want to support my work, feel free to leave a tip: <https://www.ko-fi.com/eigenchris> Video 21 on the Lie Bracket: ...

Basis vectors

Review Definition of Covariant Derivative

How can we tell if a space is curved or flat?

Flat space

Riemann Curvature Tensor Definition

Lie Bracket is NOT Linear for each input

Summary

Geodesic Deviation

Martin Rumpf -- Riemannian calculus in shape spaces - Martin Rumpf -- Riemannian calculus in shape spaces by Geometric Analysis Seminar 169 views 2 years ago 54 minutes - Martin Rumpf (University of Bonn, Germany) **Riemannian**, calculus in shape spaces Spaces of curves and surfaces or spaces of ...

Motivation

Parallel Transport

Geometric Calculus

The Exponential Map

The Continuous Logarithm

Exponential Map

Discrete Parallel Transport

Transport in $\mathbb{R}^2$ along a Straight Line

Assumptions on the Continuous Model

Assumptions of the Discrete Model

Metamorphosis Model

What is a manifold? - What is a manifold? by GeometryForPhysicists 192,402 views 8 years ago 3 minutes, 51 seconds - A visual explanation and definition of manifolds are given. This includes motivations for topology, Hausdorffness and ...

Introduction to Riemannian Geometry - Covariant & Contravariant Vectors - Introduction to Riemannian Geometry - Covariant & Contravariant Vectors by Eddie Boyes 5,132 views 1 year ago 56 minutes

- We start here (GR - 03) to think a little about 'Curvature'. Initially, this means thinking not so much about what it is, but what it is not, ...

Introduction

Riemannian Geometry

Finite OneDimensional Spaces

Infinite TwoDimensional Spaces

Curved TwoDimensional Spaces

Curved ThreeDimensional Spaces

Curved OneDimensional Spaces

Curved 2Dimensional Spaces

Curved 3Dimensional Spaces

Covariant Vector

Summary

Classroom Aid - Riemannian Curvature Tensor - Classroom Aid - Riemannian Curvature Tensor by David Butler 6,612 views 1 year ago 6 minutes, 14 seconds - Text - <https://howfaraway-isit.com/wp-content/uploads/2023/02/General-Relativity-I-Geometry,.pdf> website ...

Siran Li - Isometric Immersions of Riemannian Manifolds into Euclidean Spaces, Revisited - Siran Li - Isometric Immersions of Riemannian Manifolds into Euclidean Spaces, Revisited by Geometric Analysis Seminar 502 views 3 years ago 57 minutes - The existence of isometric immersions of **Riemannian**, manifolds into ambient Euclidean spaces has been a classical problem in ...

Intro

The isometric immersions problem

Why do we care?

History — the Weyl problem

History — other related problems

Methods

Three more approaches

Background

Two Observations

Proof

Set up

J-holomorphic formulation for isom imm

(Sporadic) existence results

What is Riemannian geometry | Riemannian geometry #youtubeshorts #shorts - What is Riemannian geometry | Riemannian geometry #youtubeshorts #shorts by Physics for Students- Unleash your power!! 1,359 views 7 months ago 56 seconds – play Short - whatisriemanniangeometry #riemanniangeometry **Riemannian geometry**, is a branch of differential geometry that studies ...

Alex Bellos: PDE's and Geometric analysis explained - Alex Bellos: PDE's and Geometric analysis explained by The Abel Prize 1,228 views 4 years ago 14 minutes, 10 seconds - Alex Bellos, popular presenter explains the basic concepts behind John Nash and Louis Nirenberg's Abel Prize. This clip is a part ...

The Laureates

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Calculus: Single and Multivariable, 6th Edition

27 May 2018 — Hugues Hallett Calculus Single & Multivariable 6th Ed Text ; Publication date: 1997-04-30 ; Topics: ijo ; Collection: opensource ; Language: English.

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