World Of Around Bi The Robyn Bisexuals Voices Getting Ochs

#Robyn #Bisexual voices #LGBTQ+ representation #Queer narratives #Ochs

Delve into the vibrant world of Robyn and the powerful amplification of bisexual voices. This article explores LGBTQ+ representation, diverse queer narratives, and the impact of figures like Ochs in fostering a more inclusive dialogue around sexual identity and community.

World Of Around Bi The Robyn Bisexuals Voices Getting Ochs

Robyn Ochs: How to be Bi-fabulous - Robyn Ochs: How to be Bi-fabulous by True Colors Inc. Premier Channel 542 views 3 years ago 30 minutes - What does it mean to identify as bi+ (**bisexual**,, pansexual, fluid, etc.)? What are some of the challenges to recognizing and ...
Bisexuality
First Month of College
When Does Bisexuality Become Visible
Identity Is a Journey
Robyn Ochs: Bisexual Youth: Challenging Stigma and Reducing Disparities - Robyn Ochs: Bisexual Youth: Challenging Stigma and Reducing Disparities by True Colors Inc. Premier Channel 72 views 3 years ago 38 minutes - It's not easy being **bi**,. **Bisexual**, and pansexual youth face high rates of behavior related to minority stress, and are less connected ...
How youth are identifying
What about transgender youth?
THESE ARE SOME OF THE UNIQUE CHALLENGES FACING BI+ PEOPLE
Defining Bisexuality
TO DO LIST
RESOURCES & REFERENCES
The Bi-Line 1 - Introducing Lois Shearing and Robyn Ochs - The Bi-Line 1 - Introducing Lois Shearing and Robyn Ochs by LGBT+ Lit Fest 36 views 2 years ago 4 minutes, 46 seconds - Lois Shearing is a **bi**, activist, freelance journalist and writer based in London. They are the founder of the **Bisexual**, Survivors ...
Robyn Ochs -- Why we need to 'Get Bi' - Robyn Ochs -- Why we need to 'Get Bi' by BiReCon 1,679 views 13 years ago 2 minutes, 39 seconds
Robyn Ochs - Why we need to 'get bi' - BiReCon 2010 - with subtitles - Robyn Ochs - Why we need to 'get bi' - BiReCon 2010 - with subtitles by biactivist 1,498 views 12 years ago 2 minutes, 39 seconds - Robyn Ochs,, editor of USA **bisexual**, magazine **Bi**, Women, addresses the first international **bisexuality**, research conference, ...
Robyn Ochs receives Bisexual Resource Center award Robyn Ochs 9/22/17 - Robyn Ochs receives Bisexual Resource Center award Robyn Ochs 9/22/17 by Robyn Ochs 107 views 6 years ago 5 minutes, 36 seconds - Ellyn Ruthstrom of the **Bisexual**, Resource Center presents **Robyn Ochs**, with the BRC Community Leadership Award. Said Ellyn ...
bisexual icons in under one minute || robyn ochs edition #shorts #lgbt #bisexual #history - bisexual

icons in under one minute || robyn ochs edition #shorts #lgbt #bisexual #history by black and white thinking. 284 views 1 year ago 59 seconds – play Short - today's episode of '**bisexual**, icons in under a minute' features **robyn ochs**,. the person who arguably pinned down the most useful ...
Interview with Bisexuality Expert, Robyn Ochs - Interview with Bisexuality Expert, Robyn Ochs by Tania Israel 827 views 2 years ago 30 minutes
Intro
Robyns History
Finding Bi People
Other classes
transgressing binaries
editing anthologies
women quarterly
speaking experience
anthologies
what bisexual people need
how to make sure people hear from you
where can people find you
How Bisexuals Sit - How Bisexuals Sit by Airlocks and Aviaries 903,498 views 3 years ago 2 minutes, 35 seconds - We don't sit straight, that's for sure. I freaking love this stereotype. Part two here: ...
Signs You are Bi-Curious - Signs You are Bi-Curious by Psych2Go 115,563 views 1 year ago 3 minutes, 27 seconds - Bi,-Curious. Have you ever heard of that term before? Do you resonate with the points and examples mentioned in the video?
Intro
Testing the waters
Being uncertain
Taking time
Seeking advice
Being yourself
6 Bisexuals vs 1 Secret Straight Person | Odd One Out - 6 Bisexuals vs 1 Secret Straight Person | Odd One Out by Jubilee 3,192,368 views 2 years ago 11 minutes, 36 seconds - Everyone in this video was tested for COVID-19. We will continue to adhere to local guidelines and safety precautions for the ...
Odd One Out Intro
Round 1: Speed Round
Round 1: Elimination
Round 2
Round 2: Elimination
Round 3
Round 3: Elimination
The results
Mole reveal
Do All Bisexual People Think The Same? - Do All Bisexual People Think The Same? by Brian Terada 140,449 views 4 months ago 16 minutes - Thanks for watching and make sure you are SUBSCRIBED with your notifications ON! Thank you also to our incredible panel for ...
Intro
Dating
Men vs Women
Sex
Open Relationships
Experimenting
Doubt
Cheating
Outro
5 Stages Of Bisexuality - 5 Stages Of Bisexuality by Courtney-Jai 1,563,031 views 5 years ago 10 minutes, 56 seconds - As a **Bisexual**, man i believe there are 4 to 5 stages every **bisexual**, goes through while they are discovering what makes them ...
Intro
Observation
realization

reach out
acceptance
friends
embracement
outro
Bisexuality Signs (How to Tell if Someone is Bisexual & Bidar) - Bisexuality Signs (How to Tell if Someone is Bisexual & Bidar) by BisexualRealTalk 298,173 views 7 years ago 17 minutes - It's easy to tell if someone is **bisexual**, if you know what to look for. This is how you develop your **bi**,-dar. Support the channel with ...
BI MODE
Don't assume they're gay
Look for the signs
Presenation
1a Hair
1b Style of dress
1c Gender Expression
Opposite gender interaction
Micro Expressions
LIVE: DONALD TRUMP VICTORY SPEECH Trump Headquarters in New York
Brooklyn Nine-Nine's Stephanie Beatriz Busts Myths About Bisexuality - Brooklyn Nine-Nine's Stephanie Beatriz Busts Myths About Bisexuality by Still Watching Netflix 194,998 views 2 years ago 3 minutes, 2 seconds - In honor of **Bisexual**, Visibility Day, Brooklyn Nine-Nine's Stephanie Beatriz tackles insane rumors about **bisexuality**,. For all things ...
BISEXUALITY MYTHBUSTERS
MYTH #3
It is a BIG DEAL !!!!
MYTH #7
BIOLUMINESCENCE
Bisexual Reacts to Bisexual Memes - Bisexual Reacts to Bisexual Memes by Jammidodger 105,871 views 1 year ago 10 minutes, 21 seconds - This video is very **bisexual**,. enjoy. Go check out today's video sponsor Pride Counseling and **get**, 10% off your first month: ...
How to know if you're BISEXUAL vs BI CURIOUS - How to know if you're BISEXUAL vs BI CURIOUS by RogersRegularShow 69,198 views 3 years ago 5 minutes, 35 seconds - Trying to know if you're **bisexual**, or **bi**, curious can be quite confusing. The constant questions on if your feelings are strong ...
Intro
What is bisexual
What is bisexuality
Outro
I spent a day with BISEXUALS - I spent a day with BISEXUALS by AnthonyPadilla 1,710,894 views 2 years ago 22 minutes - Crew ¸ Creator, Director, Writer, etc. - Anthony Padilla ¸ Executive Producer - Alessandra Catanese ¸ Producer, Co-writer ...
Intro
Meet Roxy
Suppressing your attraction
Coming out
Parents reaction
Iranian reaction
Sex
Labels
Stereotypes
Queerbaiting
#StillBisexual - Robyn Ochs - #StillBisexual - Robyn Ochs by Still Bisexual 2,594 views 7 years ago 8 minutes, 26 seconds - StillBisexual is a social media and video campaign that aims at dispelling one of the main misconceptions about **bisexuals**, — that ...
RECOGNIZE at BECAUSE 2015 Part 01 Robyn Ochs - RECOGNIZE at BECAUSE 2015 Part 01 Robyn Ochs by The BiCast 110 views 8 years ago 6 minutes, 51 seconds - The BiCast attended BECAUSE 2015 and captured the Recognize: The **Voices**, of **Bisexual**, Men-An Anthology book reading.

The Bi-Line 7 - Who is your favourite bi+ character? - The Bi-Line 7 - Who is your favourite bi+ character? by LGBT+ Lit Fest 6 views 2 years ago 5 minutes, 21 seconds - Lois Shearing is a **bi**, activist, freelance journalist and writer based in London. They are the founder of the **Bisexual**, Survivors ...
Robyn Ochs receives Susan J. Hyde Activism Award - Robyn Ochs receives Susan J. Hyde Activism Award by National LGBTQ Task Force 3,239 views 15 years ago 7 minutes, 29 seconds - Robyn Ochs, is honored with the Susan J. Hyde Activism Award for Longevity in the Movement at the 21st National Conference for ...
The Bi-Line 6 - What do you think is next for bi+ visibility? - The Bi-Line 6 - What do you think is next for bi+ visibility? by LGBT+ Lit Fest 26 views 2 years ago 5 minutes, 36 seconds - Lois Shearing is a **bi**, activist, freelance journalist and writer based in London. They are the founder of the **Bisexual**, Survivors ...
The Bi-Line 10 - Happy Bi Visibility Day! - The Bi-Line 10 - Happy Bi Visibility Day! by LGBT+ Lit Fest 13 views 2 years ago 1 minute, 1 second - Lois Shearing is a **bi**, activist, freelance journalist and writer based in London. They are the founder of the **Bisexual**, Survivors ...
The Bi-Line 4 - What message would you say to someone who had only seen limited bi+ representation? - The Bi-Line 4 - What message would you say to someone who had only seen limited bi+ representation? by LGBT+ Lit Fest 9 views 2 years ago 4 minutes, 1 second - Lois Shearing is a **bi**, activist, freelance journalist and writer based in London. They are the founder of the **Bisexual**, Survivors ...
The Bi-Line 5 - What do you wish someone had said to you when you were younger? - The Bi-Line 5 - What do you wish someone had said to you when you were younger? by LGBT+ Lit Fest 17 views 2 years ago 3 minutes, 17 seconds - Lois Shearing is a **bi**, activist, freelance journalist and writer based in London. They are the founder of the **Bisexual**, Survivors ...
BiCities! #303 Robyn Ochs @ BECAUSE Conference 2022 - BiCities! #303 Robyn Ochs @ BECAUSE Conference 2022 by Bi Cities! 87 views 11 months ago 26 minutes - Robyn Ochs,, internationally recognized author, speaker and **bi**,-activist, talks about the history of **Bisexuality**,, her newsletter **Bi**, ...
Roll-in
Intro
Robyn Ochs (introduction)
Bi+ identity highlights
Washington D.C. Policy Conference highlights on Bi+ Health
Robyn Ochs on Bi 'Joy'
Bi-for-now & Credits
Biphobia and silence - Biphobia and silence by Robyn Ochs 262 views 6 years ago 4 minutes, 47 seconds - A segment of **Robyn's**, workshop at the HRC about biphobia, oppression, and the weight of silence. **Robyn's**, website: ...
Robyn Ochs spotlight - Robyn Ochs spotlight by Equality TV 306 views 10 years ago 10 minutes, 3 seconds - The weeks **Bi**, Weekly Show puts the spotlight on **Bi**, Activist **Robyn Ochs**, and her call for **Bisexual**, Men to submit their writing and ...
The Bi-Line 2 - Why is Bi Visibility Day and bi+ visibility important to you? - The Bi-Line 2 - Why is Bi Visibility Day and bi+ visibility important to you? by LGBT+ Lit Fest 62 views 2 years ago 3 minutes, 28 seconds - Lois Shearing is a **bi**, activist, freelance journalist and writer based in London. They are the founder of the **Bisexual**, Survivors ...
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The Public Face Of The Gospel

They MENTION Jesus on The Street, Then This HAPPENS | Voddie Baucham - They MENTION Jesus on The Street, Then This HAPPENS | Voddie Baucham by Vision unSEALED 2,229,295 views 8 months ago 18 minutes - They MENTION Jesus on The Street, Then This HAPPENS. Something Strange Is Happening. Reactions from Voddie Baucham ...
THE DEVIL TRIED TO DISTRACT HIM...

THIS IS A SPIRIT OF CHAOS & VIOLENCE
THIS MAN NEED DELIVERANCE & SALVATION
Walking in Jesus' Footsteps | Lost Faces of the Bible - Walking in Jesus' Footsteps | Lost Faces of the Bible by National Geographic 54,077 views 10 years ago 1 minute, 57 seconds - About National Geographic: National Geographic is the world's premium destination for science, exploration, and adventure.
Prof. Richard FREUND Co-Director Bethsalda Excavators Project
Prof. Rami ARAV University of Nebraska
Prof. Mark APPOLD Director Bethsaida Excavacions Project
About people who NEVER hear the gospel - About people who NEVER hear the gospel by Mike Winger 137,934 views 6 years ago 47 minutes - A transparent and thorough treatment of the question from a biblical perspective. Various issues are dealt with such as why ...
What Is It Really that Causes People To Be Condemned in the First Place
Wrath Is on Us because of Sin
Is God Really Fair
General Revelation
Special Revelation
Naaman
For by It by Faith the Elders Obtained a Good Testimony
Enoch
God Wants People To Be Saved
Is It Possible To Do Harm by Sharing the Gospel
Today's Catholic Mass Readings & Gospel Reflection - Tuesday, March 19, 2024 - Today's Catholic Mass Readings & Gospel Reflection - Tuesday, March 19, 2024 by The Word Today TV 1,326 views 11 hours ago 9 minutes, 54 seconds - TheWordTodayTV #TodayGospelReading #GospelReading-forToday #GospelandReflection #HolyMassReadings Today's ...
These Men Claim They Had a FACE TO FACE Encounter With Jesus! - These Men Claim They Had a FACE TO FACE Encounter With Jesus! by THE BEAT by Allen Parr 96,003 views 10 months ago 15 minutes - Did you know that there were men who claimed that they saw Jesus **face**, to **face**,? This captivating video will explore these men's ...
Man Breaks Down Listening to Gospel *watch til end* - Man Breaks Down Listening to Gospel *watch til end* by Harmonie London 750,559 views 8 months ago 3 minutes, 28 seconds - Hope you enjoy... please comment any other songs you would like to hear from me. If you would like to support my ministry, my ...
Acts 6 | The Martyrdom of Stephen | The Bible - Acts 6 | The Martyrdom of Stephen | The Bible by The Church of Jesus Christ of Latter-day Saints 909,056 views 7 years ago 5 minutes, 44 seconds - The Apostles choose seven to assist them. Stephen is tried before the council. Acts 6 1 And in those days, when the number of the ...
Preacher John MacArthur faces backlash after saying MLK was "not a Christian at all" (Livestream) - Preacher John MacArthur faces backlash after saying MLK was "not a Christian at all" (Livestream) by Friendly Atheist 24,204 views 2 days ago 16 minutes - On February 19, fundamentalist Pastor John MacArthur of Grace Community Church in California condemned a Christian group ...
Spiritual Valiance in the Face of Opposition - Spiritual Valiance in the Face of Opposition by Chapel Falls Christian Fellowship 54 views Streamed 1 day ago 1 hour, 32 minutes - Pastor Nathan Robinson - Esther - Spiritual Valiance in the **Face**, of Opposition - Message Starts at 37:35 - Please Share.
Church People Headed to Hell (John 2:13-25) - Church People Headed to Hell (John 2:13-25) by Mission Bible Church 913 views 21 hours ago 37 minutes - In this sermon, we study Jesus storming the temple compound, overthrowing the greedy racket that abused **people**,, and brought ...
Introduction
I. Never Forgot His Cleansing of the Building
II. Never Forgot His Teaching on the Body
III. Never Forgot His Peering Into the Believers
Ben and Holly's Little Kingdom | Gaston's Birthday (Triple Episode) | Cartoons For Kids - Ben and Holly's Little Kingdom | Gaston's Birthday (Triple Episode) | Cartoons For Kids by Ben and Holly's Little Kingdom – Official Channel 8,828 views 7 hours ago 29 minutes - Keep up with new Ben and Holly's Little Kingdom episodes! Check out what they are up to this time... Subscribe ...
Something Triggering Happens Live on Air... - Something Triggering Happens Live on Air... by Off The Kirb Ministries 2,149,672 views 8 months ago 23 minutes - This is the third time I've had to reinstate this video, so if it gets hit with another problem I'm afraid I'll have to give up and delete it ...

Intro
The Decline of Christianity
Science
The Detective
The Uncanny
Security
The Idol
The Midlife Crisis
Why I Left Christianity
Dont Misunderstand Me
Draw In The Net
What Goes Through Your Mind
The Promise
Demonic Things Are Happening In Tons Of Churches | Voddie Baucham - Demonic Things Are Happening In Tons Of Churches | Voddie Baucham by Vision unSEALED 214,783 views 5 months ago 18 minutes - END-TIMES ALERT: Demonic Things Are Happening In Tons Of Churches. Reactions from Voddie Baucham, Shepherd Bushiri, ...
Second hand med Pamela - Second hand med Pamela by FAMILJEN DA SILVA No views 3 hours ago 13 minutes, 27 seconds - Måndag den 18 Mars 2024. Häng med Pamela & hannes mamma på tre olika second hand ställen. Åhus HBK, Lions i Åhus ...
WTH?!? Teens CHARGED With RACIAL BULLYING FOr Mock Snapchat Slave Auction | Roland Martin - WTH?!? Teens CHARGED With RACIAL BULLYING FOr Mock Snapchat Slave Auction | Roland Martin by Roland S. Martin 1,434 views 57 minutes ago 6 minutes, 58 seconds - Six Massachusetts middle students are facing criminal charges for their alleged role in racist bullying that included threats and "a ...
DNA II - Living Out Grace | Leadership Service | Sunday 17-03-2024 - DNA II - Living Out Grace | Leadership Service | Sunday 17-03-2024 by TREM HEADQUARTERS 1,231 views Streamed 1 day ago 2 hours, 57 minutes - You are welcome to this online worship experience of The Redeemed Evangelical Mission (TREM). It promises to be a glorious ...
FACE TO FACE! Bishop McCLendon Asked Pastor Gino Jennings To Limit Harsh Messages About Him On TV - FACE TO FACE! Bishop McCLendon Asked Pastor Gino Jennings To Limit Harsh Messages About Him On TV by Biblical Truth 79,054 views 6 days ago 36 minutes - FACE, TO **FACE**,! Bishop McCLendon Asked Pastor Gino Jennings To Limit Harsh Messages About Him On TV #ginojennings ...
PANICKED Trump ATTACKS Witness in Federal Criminal Case - PANICKED Trump ATTACKS Witness in Federal Criminal Case by MeidasTouch 58,779 views 28 minutes ago 10 minutes, 31 seconds - Former Prosecutor and Legal AF host Karen Friedman Agnifilo reports on Trump's escalating rhetoric over the weekend, as well ...
This Is Purely DEMONIC... Oprah Winfrey - This Is Purely DEMONIC... Oprah Winfrey by The Gospel of Christ 1,410,839 views 1 year ago 13 minutes, 15 seconds - This is purely demonic, Oprah Winfrey. I was shocked to hear what Oprah said about God and Christianity. Oprah Winfrey asks "Is ...
They Mock God In Front of the Entire World Then This Happens! - They Mock God In Front of the Entire World Then This Happens! by Glorious Mandate 141,131 views 1 year ago 6 minutes - They Mock God In Front of the Entire World Then This Happens! Amongst other religions, Christianity has always come under ...
She hears the Gospel and starts to cry >y She hears the Gospel and starts to cry >by Behold! Truth Ministries 1,508,728 views 1 year ago 16 minutes - Romans 10:9-10 If you declare with your mouth, “Jesus is Lord,” and believe in your heart that God raised him from the dead, you ...
Sharing the Gospel in the Face of Danger - Sharing the Gospel in the Face of Danger by The 700 Club 1,892 views 10 years ago 11 minutes, 51 seconds - Iranian authorities sentenced Maryam and Marziyeh to death because they converted from Islam to Christianity.
Intro
What happened
Charges
Conditions in prison
In solitary
Deprivation
The lowest point
Why were you released

What are you doing now
Watch What Happens When They Mention God on Live TV - Watch What Happens When They Mention God on Live TV by Off The Kirb Ministries 3,911,531 views 1 year ago 11 minutes, 11 seconds - I told you that you'd be shocked by what NASA are doing! Christian Celebrities and sports stars are silenced as soon as they ...
Regina Henderson: the Gospel in the Face of Religious Extremism. A North American Perspective - Regina Henderson: the Gospel in the Face of Religious Extremism. A North American Perspective by Christ at The Checkpoint 268 views 8 years ago 36 minutes - Christ at the checkpoint 4 conference: The **Gospel**, in the **Face**, of Religious Extremism. Bethlehem **Bible**, College. March 7-10 ...
Religious Extremism
Racial Discrimination
Bomber Declaration
Our Baptisms Define Who We Are
The Gospel of Matthew
Overcoming fear so you can preach the gospel anywhere, anytime - Overcoming fear so you can preach the gospel anywhere, anytime by Torch of Christ Ministries 13,986 views 2 years ago 2 minutes, 41 seconds - So many have difficulty preaching the **gospel**, publicly. Sometimes accessing the power of God available to you is a matter of ...
The Price for Glorification | David Ibiyeomie - The Price for Glorification | David Ibiyeomie by Salvation Ministries 106 views 1 hour ago 30 minutes - Join LIVE Service @ www.smhos.org/livestream (You can also watch on your mobile devices) Like our Facebook page ...
They Opened Their Church To SATAN, Then This HAPPENED | Voddie Baucham - They Opened Their Church To SATAN, Then This HAPPENED | Voddie Baucham by Vision unSEALED 1,245,671 views 10 months ago 12 minutes, 59 seconds - They Opened Their Church To SATAN, Then This HAPPENED. God is cleaning the house, separating the wheat from the chaff, ...
Oprah Winfrey, This is Why You Never Mess With God... - Oprah Winfrey, This is Why You Never Mess With God... by Off The Kirb Ministries 2,074,125 views 1 year ago 11 minutes, 37 seconds - I was shocked in Oprah's second interview (later in video) when she stated why she rejected her Christian upbringing and Pastor.
ACTS FULL GOSPEL CHURCH | LORD JESUS FILL ME WITH THE HOLY SPIRIT PART 2 | BISHOP BOB JACKSON - ACTS FULL GOSPEL CHURCH | LORD JESUS FILL ME WITH THE HOLY SPIRIT PART 2 | BISHOP BOB JACKSON by Acts Full Gospel Church 367 views Streamed 22 hours ago 2 hours, 21 minutes - ACTS FULL **GOSPEL**, CHURCH | LORD JESUS FILL ME WITH THE HOLY SPIRIT PART 2 | BISHOP BOB JACKSON.
Preaching the Gospel at #pride parade #nyc - Preaching the Gospel at #pride parade #nyc by ejservantoftheking 477,422 views 1 year ago 14 minutes, 54 seconds - Preaching the **Gospel**, at the #pride parade in #nyc. My name is Elliot aka ejservantoftheking. My goal is to win souls for the Lord.
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Solution Manual Engineering Optimization Theory And Practice Pdf

optimization methods, and risk management tools in such projects. It overlaps technical and human-centered disciplines such as industrial engineering... 56 KB (5,692 words) - 19:05, 13 March 2024
science, and optimization of complex processes, systems, or organizations. It is concerned with the understanding and application of engineering procedures... 61 KB (6,879 words) - 02:37, 13 March 2024
the causes of various aviation accidents and incidents. Mathematical optimization Mathematical optimization (alternatively spelled optimisation) or mathematical... 252 KB (31,104 words) - 11:29, 20 February 2024
Strategy Game Theory Model for Deregulated Generation Expansion Planning Problem" (PDF). International Journal on Electrical Engineering and Informatics... 157 KB (17,151 words) - 00:10, 17 March 2024
Engineering. Academic Press. pp. 16–. ISBN 978-0-12-374979-6. Vincent, Julian F. V.; et al. (22 August

2006). "Biomimetics: its practice and theory"... 270 KB (31,768 words) - 20:34, 6 November 2023
engineering is the study of physical machines that may involve force and movement. It is an engineering branch that combines engineering physics and mathematics... 56 KB (6,454 words) - 16:05, 17 March 2024
the loss terms to be able to optimize. Another reason is getting optimization itself. Posing PDE solving as an optimization problem brings in all the problems... 28 KB (3,561 words) - 21:44, 18 March 2024
Factor in safety, ergonomics and system resilience Industrial engineering – Branch of engineering which deals with the optimization of complex processes or... 96 KB (13,239 words) - 19:39, 25 January 2024
civil engineering terms is a list of definitions of terms and concepts pertaining specifically to civil engineering, its sub-disciplines, and related... 66 KB (6,451 words) - 04:42, 7 February 2024
estimated for each technology. In mathematics, mathematical optimization (or optimization or mathematical programming) refers to the selection of a best... 135 KB (13,630 words) - 19:25, 7 February 2024
problems, and how this practice changed over centuries. Exploring historical examples of applied science, such as the development of engineering techniques... 15 KB (1,605 words) - 04:43, 16 March 2024
incorporates deep learning into the solution, allowing agents to make decisions from unstructured input data without manual engineering of the state space. Deep... 27 KB (2,935 words) - 03:23, 28 January 2024
process for problem-solving and engineering algorithms. The design of algorithms is part of many solution theories, such as divide-and-conquer or dynamic programming... 119 KB (15,310 words) - 15:18, 29 February 2024
methods of inductive logic programming. stochastic optimization (SO) Any optimization method that generates and uses random variables. For stochastic problems... 252 KB (27,504 words) - 02:44, 4 March 2024
compilation or interpretation. In theory, a programming language can have both a compiler and an interpreter. In practice, programming languages tend to... 64 KB (7,724 words) - 15:05, 13 March 2024
for the purpose of optimizing stock of goods, as well as costs of keeping and replenishing that stock. In engineering control theory, such as for electromechanical... 23 KB (2,770 words) - 10:30, 7 March 2024
optimized form: program_optimized(Prog0, Prog) :- optimization_pass_1(Prog0, Prog1), optimization-_pass_2(Prog1, Prog2), optimization_pass_3(Prog2, Prog).... 70 KB (7,981 words) - 09:48, 17 March 2024
humans and other elements of a system, and the profession that applies theory, principles, data and methods to design to optimize human well-being and overall... 65 KB (8,100 words) - 16:17, 12 March 2024
numerical linear algebra and numerical libraries (LAPACK, IMSL and NAG), optimization, satellite simulation, structural engineering, and weather prediction... 100 KB (10,639 words) - 17:58, 8 March 2024
adjoint equation. Methods based on solution of adjoint equations are used in wing shape optimization, fluid flow control and uncertainty quantification. For... 86 KB (10,423 words) - 02:39, 24 August 2023

Principles of Digital Communication

The renowned communications theorist Robert Gallager brings his lucid writing style to the study of the fundamental system aspects of digital communication for a one-semester course for graduate students. With the clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then combines this with careful proofs to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and links between theory and practice reinforce this concise, practical presentation. The book begins with data compression for arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis and intuitive interpretations are developed for channel noise models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study.

Introduction to Wireless Communication Circuits

Over the past decade the tremendous development of Wireless Communications has changed human life incredibly. Considerable advancement has been made in the design and architecture of communications related RF and Microwave circuits. This book is focused on special circuits dedicated to the RF level of wireless Communications. From Oscillators to Modulation and Demodulation and from Mixers to RF and Power Amplifier Circuits, the topics are presented in a sequential manner. A wealth of analysis is provided in the text alongside various worked out examples. Related problem sets are given at the end of each chapter.

Principles of Digital Communication

This book guides readers through the design of hardware architectures using VHDL for digital communication and image processing applications that require performance computing. Further it includes the description of all the VHDL-related notions, such as language, levels of abstraction, combinational vs. sequential logic, structural and behavioral description, digital circuit design, and finite state machines. It also includes numerous examples to make the concepts presented in text more easily understandable.

Application-Specific Hardware Architecture Design with VHDL

The renowned communications theorist Robert Gallager brings his lucid writing style to the study of the fundamental system aspects of digital communication for a one-semester course for graduate students. With the clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then combines this with careful proofs to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and links between theory and practice reinforce this concise, practical presentation. The book begins with data compression for arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis and intuitive interpretations are developed for channel noise models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study.

Principles of Digital Communication

This book constitutes the refereed proceedings of the First International Conference on Technology Systems and Management, ICTSM 2011, held in Mumbai, India, in February 2011. The 47 revised full papers presented were carefully reviewed and selected from 276 submissions. The papers are organized in topical sections on computer engineering and information technology; electronics and telecommunication; as well as technology management.

Technology Systems and Management

1. Señales y sistemas 2. Sistemas lineales invariantes en el tiempo 3. Representación de señales periódicas en series de Fourier 4. La transformada contínua de Fourier 5. La transformada de Fourier de tiempo discreto 6. Caracterización en tiempo y frecuencia de señales y sistemas 7. Muestreo 8. Sistemas de comunicación 9. La transformada de Laplace 10. La transformada z 11. Sistemas lineales retroalimentados.

Señales y sistemas

A comprehensive text that takes a unique top-down approach to teaching the fundamentals of digital communication for a one-semester course.

Principles of Digital Communication

In June 2001, operators and equipment vendors in the communications ecosystem founded the non-profit WiMAX Forum, an industry-led organization aimed at harmonizing broadband wireless access standards. Nowadays, about 10 years later, the WiMAX technology is a mature and affordable solution for high-speed IP-based 4G mobile broadband, fully supporting bandwidth-intensive services,such as high-speed Internet access and television, as well as less bandwidth-demanding but more latency-sensitive services, such as voice-over-IP calls. In this book a collection of selected papers is presented, which covers several aspects of the WiMAX technology, with particular reference to multiuser multiple input multiple output diversity techniques,peak-to-average power ratio, mesh architectures, handover

mechanisms, coordinated authentication in a heterogeneous network environment and multicast /broadcast re-keying algorithms.

Selected Topics in WiMAX

Unlike some other reproductions of classic texts (1) We have not used OCR(Optical Character Recognition), as this leads to bad quality books with introduced typos. (2) In books where there are images such as portraits, maps, sketches etc We have endeavoured to keep the quality of these images, so they represent accurately the original artefact. Although occasionally there may be certain imperfections with these old texts, we feel they deserve to be made available for future generations to enjoy.

Principles of Digital Communication and Coding

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Information Theory, Inference and Learning Algorithms

Offering up-to-date coverage on the principles of digital communications, this book focuses on basic issues, relating theory to practice wherever possible. Numerous examples, worked out in detail, have been included to help the reader develop an intuitive grasp of the theory. Topics covered include the sampling process, digital modulation techniques, error-control coding, robust quantization for pulse-code modulation, coding speech at low bit radio, information theoretic concepts, coding and computer communication. As the book covers a broad range of topics in digital communications, it should satisfy a variety of backgrounds and interests, and it offers a great deal of flexibility for teaching the course. The author has included suggested course outlines for courses at the undergraduate or graduate levels.

Digital Communications

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Principles of Digital Communication and Coding

Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Telecomunicaciones digitales

Computer Systems Organization -- general.

Foundations of Analog and Digital Electronic Circuits

Principles of Computer System Design is the first textbook to take a principles-based approach to the computer system design. It identifies, examines, and illustrates fundamental concepts in computer system design that are common across operating systems, networks, database systems, distributed systems, programming languages, software engineering, security, fault tolerance, and architecture. Through carefully analyzed case studies from each of these disciplines, it demonstrates how to apply these concepts to tackle practical system design problems. To support the focus on design, the text identifies and explains abstractions that have proven successful in practice such as remote procedure call, client/service organization, file systems, data integrity, consistency, and authenticated messages. Most computer systems are built using a handful of such abstractions. The text describes how these abstractions are implemented, demonstrates how they are used in different systems, and prepares the reader to apply them in future designs. The book is recommended for junior and senior undergraduate students in Operating Systems, Distributed Systems, Distributed Operating Systems and/or Computer Systems Design courses; and professional computer systems designers. Features: Concepts of computer system design guided by fundamental principles. Cross-cutting approach that identifies abstractions common to networking, operating systems, transaction systems, distributed systems, architecture, and software engineering. Case studies that make the abstractions real: naming (DNS and the URL); file systems (the UNIX file system); clients and services (NFS); virtualization (virtual machines); scheduling (disk arms); security (TLS). Numerous pseudocode fragments that provide concrete examples of abstract concepts. Extensive support. The authors and MIT Open-CourseWare provide on-line, free of charge, open educational resources, including additional chapters, course syllabi, board layouts and slides, lecture videos, and an archive of lecture schedules, class assignments, and design projects.

Computation Structures

This definitive textbook provides a solid introduction to discrete and continuous stochastic processes, tackling a complex field in a way that instils a deep understanding of the relevant mathematical principles, and develops an intuitive grasp of the way these principles can be applied to modelling real-world systems. It includes a careful review of elementary probability and detailed coverage of Poisson, Gaussian and Markov processes with richly varied queuing applications. The theory and applications of inference, hypothesis testing, estimation, random walks, large deviations, martingales and investments are developed. Written by one of the world's leading information theorists, evolving over twenty years of graduate classroom teaching and enriched by over 300 exercises, this is an exceptional resource for anyone looking to develop their understanding of stochastic processes.

Principles of Computer System Design

Key concepts, frameworks, examples, and lessons learned in designing and implementing health information and communication technology systems in the developing world. The widespread usage of mobile phones that bring computational power and data to our fingertips has enabled new models for tracking and battling disease. The developing world in particular has become a proving ground for innovation in eHealth (using communication and technology tools in healthcare) and mHealth (using the affordances of mobile technology in eHealth systems). In this book, experts from a variety of disciplines—among them computer science, medicine, public health, policy, and business—discuss key concepts, frameworks, examples, and lessons learned in designing and implementing digital health systems in the developing world. The contributors consider such topics as global health disparities and quality of care; aligning eHealth strategies with government policy; the role of monitoring and evaluation in improving care; databases, patient registries, and electronic health records; the lifecycle of a digital health system project; software project management; privacy and security; and evaluating health technology systems.

Stochastic Processes

"Digital Communications" presents the theory and application of the philosophy of Digital Communication systems in a unique but lucid form. The book inserts equal importance to the theory and application aspect of the subject whereby the authors selected a wide class of problems. The Salient features of the book are: 1. The foundation of Fourier series, Transform and wavelets are introduces in a unique way but in lucid language. 2. The application area is rich and resemblance to the present trend of research, as we are attached with those areas professionally. 3. Elegant exercise section is designed in such a way that, the readers can get the flavor of the subject and get attracted towards the future scopes of

the subject. 4. Unparallel tabular, flow chart based and pictorial methodology description will be there for sustained impression of the proposed design/algorithms in mind.

Códigos Correctores de Erros em Comunicações Digitais

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

Global Health Informatics

An argument that great expressive power of computational media arises from the construction of phantasms—blends of cultural ideas and sensory imagination. In Phantasmal Media, D. Fox Harrell considers the expressive power of computational media. He argues, forcefully and persuasively, that the great expressive potential of computational media comes from the ability to construct and reveal phantasms—blends of cultural ideas and sensory imagination. These ubiquitous and often-unseen phantasms—cognitive phenomena that include sense of self, metaphors, social categories, narrative, and poetic thinking—influence almost all our everyday experiences. Harrell offers an approach for understanding and designing computational systems that have the power to evoke these phantasms, paying special attention to the exposure of oppressive phantasms and the creation of empowering ones. He argues for the importance of cultural content, diverse worldviews, and social values in computing. The expressive power of phantasms is not purely aesthetic, he contends; phantasmal media can express and construct the types of meaning central to the human condition. Harrell discusses, among other topics, the phantasm as an orienting perspective for developers; expressive epistemologies, or data structures based on subjective human worldviews; morphic semiotics (building on the computer scientist Joseph Goguen's theory of algebraic semiotics); cultural phantasms that influence consensus and reveal other perspectives; computing systems based on cultural models; interaction and expression; and the ways that real-world information is mapped onto, and instantiated by, computational data structures. The concept of phantasmal media, Harrell argues, offers new possibilities for using the computer to understand and improve the human condition through the human capacity to imagine.

Digital Communication

This title provides practical and detailed techniques for ethnographic research customized to reflect the specific issues of online virutal worlds, both game and nongame.

Mathematics for Computer Science

Explore Modern Communications and Understand Principles of Operations, Appropriate Technologies, and Elements of Design of Communication Systems Modern society requires a different set of communication systems than has any previous generation. To maintain and improve the contemporary communication systems that meet ever-changing requirements, engineers need to know how to recognize and solve cardinal problems. In Essentials of Modern Communications, readers will learn how modern communication has expanded and will discover where it is likely to go in the future. By discussing the fundamental principles, methods, and techniques used in various communication systems, this book helps engineers assess, troubleshoot, and fix problems that are likely to occur. In this reference, readers will learn about topics like: How communication systems respond in time and frequency domains Principles of analog and digital modulations Application of spectral analysis to modern communication systems based on the Fourier series and Fourier transform Specific examples and problems, with discussions around their optimal solutions, limitations, and applications Approaches to solving the concrete engineering problems of modern communications based on critical, logical, creative, and out-of-box thinking For readers looking for a resource on the fundamentals of modern communications and the possible issues they face, Essentials of Modern Communications is instrumental in educating on real-life problems that engineering students and professionals are likely to encounter.

Phantasmal Media

Experts discuss the potential for open education tools, resources, and knowledge to transform the economics and ecology of education. Given the abundance of open education initiatives that aim to make educational assets freely available online, the time seems ripe to explore the potential of open education to transform the economics and ecology of education. Despite the diversity of tools and resources already available—from well-packaged course materials to simple games, for students, self-learners, faculty, and educational institutions—we have yet to take full advantage of shared knowledge about how these are being used, what local innovations are emerging, and how to learn from and build on the experiences of others. Opening Up Education argues that we must develop not only the technical capability but also the intellectual capacity for transforming tacit pedagogical knowledge into commonly usable and visible knowledge: by providing incentives for faculty to use (and contribute to) open education goods, and by looking beyond institutional boundaries to connect a variety of settings and open source entrepreneurs. These essays by leaders in open education describe successes, challenges, and opportunies they have found in a range of open education initiatives. They approach—from both macro and micro perspectives—the central question of how open education tools, resources, and knowledge can improve the quality of education. The contributors (from leading foundations, academic institutions, associations, and projects) discuss the strategic underpinnings of their efforts first in terms of technology, then content, and finally knowledge. They also address the impact of their projects, and how close they come to achieving a vision of sustainable, transformative educational opportunities that amounts to much more than pervasive technology. Through the support of the Carnegie Foundation for the Advancement of Teaching, an electronic version of this book is openly available under a Creative Commons license at The MIT Press Web site, http://mitpress.mit.edu. Contributors Richard Baraniuk, Randy Bass, Trent Batson, Dan Bernstein, John Seely Brown, Barbara Cambridge, Tom Carey, Catherine Casserly, Bernadine Chuck Fong, Ira Fuchs, Richard Gale, Mia Garlick, Gerard Hanley, Diane Harley, Mary Huber, Pat Hutchings, Toru Iiyoshi, David Kahle, M. S. Vijay Kumar, Andy Lane, Diana Laurillard, Stuart Lee, Steve Lerman, Marilyn Lombardi, Phil Long, Clifford Lynch, Christopher Mackie, Anne Margulies, Owen McGrath, Flora McMartin, Shigeru Miyagawa, Diana Oblinger, Neeru Paharia, Cheryl Richardson, Marshall Smith, Candace Thille, Edward Walker, David Wiley

Ethnography and Virtual Worlds

This textbook explains Technology Roadmapping, in both its development and practice, and illustrates the underlying theory of, and empirical evidence for, technologic evolution over time afforded by this strategy. The book contains a rich set of examples and practical exercises from a wide array of domains in applied science and engineering such as transportation, energy, communications, and medicine. Professor de Weck gives a complete review of the principles, methods, and tools of technology management for organizations and technologically-enabled systems, including technology scouting, roadmapping, strategic planning, R&D project execution, intellectual property management, knowledge management, partnering and acquisition, technology transfer, innovation management, and financial technology valuation. Special topics also covered include Moore's law, S-curves, the singularity and fundamental limits to technology. Ideal for university courses in engineering, management, and business programs, as well as self-study or online learning for professionals in a range of industries, readers of this book will learn how to develop and deploy comprehensive technology roadmaps and R&D portfolios on diverse topics of their choice. Introduces a unique framework, Advanced Technology Roadmap Architecture (ATRA), for developing quantitative technology roadmaps and competitive R&D portfolios through a lucid and rigorous step-by-step approach; Elucidates the ATRA framework through analysis which was validated on an actual $1 billion R&D portfolio at Airbus, leveraging a pedagogy significantly beyond typical university textbooks and problem sets; Reinforces concepts with in-depth case studies, practical exercises, examples, and thought experiments interwoven throughout the text; Maximizes reader competence on how to explicitly link strategy, finance, and technology. The book follows and supports the MIT Professional Education Courses "Management of Technology: Roadmapping & Development," https://professional.mit.edu/course-catalog/management-technology-roadmapping-development and "Management of Technology: Strategy & Portfolio Analysis" https://professional.mit.edu/course-catalog/management-technology-strategy-portfolio-analysis

Essentials of Modern Communications

From the head of TED and based on expertise drawn from the best TED Talks, an entertaining and practical guide to speaking, pitching and telling stories, filled with valuable insight for salespeople, leaders, teachers and writers Amid today's proliferating instant-communication channels, one form has

emerged as the most effective way to communicate—a brief, polished, live-audience video talk. Since taking over TED in the early 2000s, Chris Anderson has tapped the world's most brilliant minds to share their expertise on myriad subjects. Anderson discovered early on that the keys to getting an audience to sit up and pay attention are to condense a presentation into 18 minutes or less and to heighten its impact with a powerful narrative: in other words, to tell a terrific story. TED Talks is chock full of personal presentation suggestions from such TED notables as Sir Ken Robinson, Mary Roach, Amy Cuddy, Bill Gates, Elizabeth Gilbert, Dan Gilbert, Matt Ridley and dozens more—everything from how to focus your speech's content to what you should wear onstage. This is a lively, fun read with great practical value, from the man who knows what goes into a great speech. In TED Talks, Anderson pulls back the TED curtain for anyone who wants to learn from the world's best on how to prepare a top-notch presentation.

Solutions Manual to Accompany: Principles of Digital Communication and Coding

Principles of Digital Transmission is designed for advanced undergraduate and graduate level students and professions in telecommunications. Teachers and learners can mix and match chapters to create four distinct courses: (1) a one-term basic course in digital communications; (2) a one-term course in advanced digital communications; (3) a one-term course in information theory and coding; (4) a two-term course sequence in digital communications and coding. The book provides rigorous mathematical tools for the analysis and design of digital transmission systems. The authors emphasize methodology in their aim to teach the reader how to do it rather than how it is done. They apply the fundamental tools of the discipline onto a number of systems, such as wireless data transmission systems.

Digital Communication

This book provides readers with an introductory resource for learning how to create compelling games using the open source Python programming language and Pygame games development library. Authored by industry veteran and Python expert Will McGugan, readers are treated to a comprehensive, practical introduction to games development using these popular technologies. They can also capitalize upon numerous tips and tricks the author has accumulated over his career creating games for some of the world's largest gaming developers.

Opening Up Education

Cryptography is now ubiquitous – moving beyond the traditional environments, such as government communications and banking systems, we see cryptographic techniques realized in Web browsers, e-mail programs, cell phones, manufacturing systems, embedded software, smart buildings, cars, and even medical implants. Today's designers need a comprehensive understanding of applied cryptography. After an introduction to cryptography and data security, the authors explain the main techniques in modern cryptography, with chapters addressing stream ciphers, the Data Encryption Standard (DES) and 3DES, the Advanced Encryption Standard (AES), block ciphers, the RSA cryptosystem, public-key cryptosystems based on the discrete logarithm problem, elliptic-curve cryptography (ECC), digital signatures, hash functions, Message Authentication Codes (MACs), and methods for key establishment, including certificates and public-key infrastructure (PKI). Throughout the book, the authors focus on communicating the essentials and keeping the mathematics to a minimum, and they move quickly from explaining the foundations to describing practical implementations, including recent topics such as lightweight ciphers for RFIDs and mobile devices, and current key-length recommendations. The authors have considerable experience teaching applied cryptography to engineering and computer science students and to professionals, and they make extensive use of examples, problems, and chapter reviews, while the book's website offers slides, projects and links to further resources. This is a suitable textbook for graduate and advanced undergraduate courses and also for self-study by engineers.

Digital Communication

A comprehensive and self-contained introduction to Gaussian processes, which provide a principled, practical, probabilistic approach to learning in kernel machines. Gaussian processes (GPs) provide a principled, practical, probabilistic approach to learning in kernel machines. GPs have received increased attention in the machine-learning community over the past decade, and this book provides a long-needed systematic and unified treatment of theoretical and practical aspects of GPs in machine

learning. The treatment is comprehensive and self-contained, targeted at researchers and students in machine learning and applied statistics. The book deals with the supervised-learning problem for both regression and classification, and includes detailed algorithms. A wide variety of covariance (kernel) functions are presented and their properties discussed. Model selection is discussed both from a Bayesian and a classical perspective. Many connections to other well-known techniques from machine learning and statistics are discussed, including support-vector machines, neural networks, splines, regularization networks, relevance vector machines and others. Theoretical issues including learning curves and the PAC-Bayesian framework are treated, and several approximation methods for learning with large datasets are discussed. The book contains illustrative examples and exercises, and code and datasets are available on the Web. Appendixes provide mathematical background and a discussion of Gaussian Markov processes.

Technology Roadmapping and Development

Geographies of Media and Communication From the invention of the telegraph to the emergence of the Internet, communications technologies have transformed the ways that people and places relate to each other. Geographies of Media and Communication is the first textbook to treat all aspects of geography’s variegated encounter with communication. Connecting geographical ideas with communication theories such as intertextuality, audience-centered theory, and semiotics, Paul C. Adams explores media representations of places, the spatial diffusion of communication technologies, and the power of communication technologies to transform places, and to dictate who does and does not belong in them.

Introduction to Radar Systems

Like virtual reality, augmented reality is becoming an emerging platform in new application areas for museums, edutainment, home entertainment, research, industry, and the art communities using novel approaches which have taken augmented reality beyond traditional eye-worn or hand-held displays. In this book, the authors discuss spatial augmented r

TED TALKS: The Official TED Guide to Public Speaking

Education systems today face two major challenges: expanding the reach of education and improving its quality. Traditional solutions will not suffice, especially in the context of today's knowledge-intensive societies. The Open Educational Resources movement offers one solution for extending the reach of education and expanding learning opportunities. The goal of the movement is to equalise access to knowledge worldwide through openly and freely available online high-quality content. UNESCO has contributed to building global awareness about Open Educational Resources, through facilitating an extended conversation in cyberspace. Over the course of two years, a large and diverse international community came together in a series of online discussion forums to discuss the concept of Open Educational Resources and its potential. In making the background papers and reports from those discussions available for the first time in print, this publication seeks to share even more widely the contributions made by so many. It is intended for all who may be intrigued by the Open Educational Resources movement - its promise and its progress.

Solutions Manual to Accompany Digital Communications

Principles of Digital Transmission

Of Point Solution Lehmann Estimation Theory

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Introduction
What are project estimating techniques
Parametric estimating
Bottom up estimating
Analogous estimating
Threepoint estimating
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Not Only on the Part of of Wall Street but Regulators To Stem the Tide of a Mass Financial Panic We Talked about about that Last Time the Reason that Regulators and the Government Sprang into Action Was Not because Lehman Went under or a Ig Went under or any of these Other Large Organizations the Reason That Finally Got Them over the Edge of Moving To Do Something Substantial Is because the Reserve Fund a Retail Money Market Fund Broke the Buck and if that Happens on a Regular Basis beyond the Reserve Fund You Will Have a Very Very Significant Financial Market Dislocation It Turns Out that Wachovia Is Part of that Retail Network and if You Let What Cobia Fail
Okay I Know There Are More Questions but Let Me Hold Off on those and Start on the Lecture Today and Then We Can Cover those a Little Bit Later On after We'Ve Made some Progress so this Is a Continuation of Last Lecture Where We Were Talking about Convexity and Duration as Two Measures of the Riskiness of a Bond Portfolio and I Concluded Last Lecture by Talking about the Fact that if You Think about a Bond as a Function of the Underlying Yield Then You Can Use a an Approximation Result That Says that the Bond Price as a Function of Yield Is Approximately Going To Be Given by a Linear Function of Its Duration and a Quadratic Function of Its Convexity
And Really the Purpose of this Is Just To Give You a Way of Thinking about How Changes in the the Fluctuations of a Bond Portfolio As Well as the Curvature of that Bond Portfolio Will Affect Its Value and Therefore Its Riskiness Okay these Are Just Two Measures That Will Allow You To Capture the Risk of a Bond Portfolio So I Have a Numerical Example Here that You Can Take a Look at and Work Out and You Can See How Good that Approximation Is You Know this Is an Approximate Result that the Price at a Yield of 8 % Is Going To Be Given as a Function of the Price of the Bond at a Yield of 6 % Multiplied by this Linear Quadratic Expression
By Looking at Convexity and Duration You Can Get a Sense of How Sensitive Your Portfolio Might Be to those Kinds of Exposures Okay the Last Topic I'M Going To Take On Is Now Corporate Bonds Up until this Point the Only Thing That We Focused on Has Been Default Free Securities Namely

Government Securities because Governments Can Always Print Money and Therefore They Can Always Make Good on the Claim that They Will Pay You a Face Value of $ 1 , 000 in 27 Years Right There's no Risk that They Can't Run those Printing Presses What I Want To Turn to Now Is Risky Debt and in Particular I Want To Point Out that Risky Debt Is Fundamentally Different in the Sense that There's a Chance that You Don't Get Paid Back

What I Want To Turn to Now Is Risky Debt and in Particular I Want To Point Out that Risky Debt Is Fundamentally Different in the Sense that There's a Chance that You Don't Get Paid Back so One of the Most Significant Concerns of Pricing Corporate Bonds Is Default Risk and the Market Has Created Its Own Mechanism for Trying To Get a Sense of What the Default Risk Really Is Namely Credit Ratings these Are Ratings Put Out by a Variety of Services the Services That Are Most Popular Are Moody's S & P and Fitch and these Services Do Analyses on Various Companies and Then They Issue Reports

The Services That Are Most Popular Are Moody's S & P and Fitch and these Services Do Analyses on Various Companies and Then They Issue Reports and Ultimately Ratings on those Companies They'Ll Say You Know this Company Is Rated Triple-a Triple-A Being the Highest Category and I'Ve Listed the Different Ratings Categories for the Three Different Agencies Here so You Can Get a Sense of How They Compare Typically these Ratings Are Grouped into Two Two Categories Investment Grade and Non-Investment Grade and Really the Difference Is the Nature of the Default Risk or the Speculative Nosov

So You Can Get a Sense of How They Compare Typically these Ratings Are Grouped into Two Two Categories Investment Grade and Non-Investment Grade and Really the Difference Is the Nature of the Default Risk or the Speculative nosov the Default Probability Bonds That Are below Investment-Grade Have a Higher Default Rate and Bonds That Are Supposedly Investment-Grade Are Ones That Are Appropriate for Prudent and Conservative Investments Yeah I Was Sorry about that Yeah Thank You Yeah that's Better so Investment Grade for Moody's Is a Triple-a High Quality Is Double-a Upper Medium Quality Is Single a and Then Medium Grade Is B Double a and Then Anything below B Double a Is Considered Non Investment Grade

Now the One Thing You Have To Keep in Mind about Fixed Income Securities Is that Apart from some of the More Esoteric Strategies That We Talked about Last Time like Fixed Income Arbitrage this Idea of Taking a Bunch of Bonds and Figuring Out Which Ones Are Mispriced and Trading Them Apart from those Strategies Most People Invest in Bonds Not because They Want Exciting Returns All Right if You Want Exciting Returns You Put Your Money in the Stock Market or Real Estate or Private Equity or Other Kinds of Exciting Ventures Bonds Are Supposed To Be Boring Okay You Put Your Money in and Five Years Later You Get Your Money Out with a Little Extra that's What Bonds Are Supposed To Do and It Wasn't until the 1970s

And for those That Are a Little Bit More Adventurous They'Ll Take On Lower Grade and for those Hedge Funds Who Are Looking for Lots of Risk and Lots of Return They'Re the Ones That Are Dealing in the Non-Investment Grade Issues Right those Are the Ones Where You Have Relatively Large Returns Fifteen or Twenty Percent Returns You Didn't Think You Can Get Returned at Fifteen to Twenty Percent for Bonds but You Can if There's a Five or Ten Percent Chance that You Won't Get Anything

And Then the Other Part Is Simply the Default Free that's the Part That We'Ve Studied Up until Today so the Other Two Parts the Other Extra Risk Premium Is Really Decomposed into a Default Risk Premium but Also a Market Risk Premium That Is Just General Riskiness and Price Fluctuation People Don't Like that Kind of Risk and They'Re Going To Have To Be Compensated for that Risk Irrespective of Default Just the Fact that Prices Move Around Will Require You To Reward Investors for Holding these Kind of Instruments and in the Slides I Give You some Citations for Studies on How You Might Go about Decomposing those Kind of Risk Premiums so You Can Take a Look at that on Your Own but the Last Topic That I Want To Turn to in Just a Few Minutes Today before We Move on to the Pricing of Equity Securities

The Last Topic I Want To Turn to Is Directly Related to the Problem of the Subprime Mortgages I Promised You that I Would Touch upon this I'M Not Going To Go through It in Detail because this Is the Kind of Material That We Will Go Through in Other Sessions on the Current Financial Crisis but I Want To At Least Tell You about One Aspect of Bond Markets That's Been Really Important over the Last Ten Years and that Is Securitization Now When You Want To Issue a Risky Bond as a Corporation or Even as an Individual You Have To Deal with a Counterparty a Bank Typically Banks Were the Traditional Means of Borrowing and Lending for Most of the 20th Century and Up until the Last Ten Years

So in About 10 or 15 Minutes I'M Going To Illustrate to all of You the Nature of Problems in the

Subprime Mortgage Market That's all It'Ll Take To Get to the Bottom of It Take Years but At Least To Understand What's Going On I'M Going To Do this Very Simple Example Suppose that I Have a Bond Which Is a Risky Bond It's an Iou That Pays $ 1 , 000 if It Pays Off At All so the Face Value of this Bond Is $ 1 , 000 but this Is a Risky Bond in the Sense that It Pays Off $ 1 , 000 with a Certain Probability
What I Might Do Is To Say Okay $ 900 Is What I Expect To Get out of the Bond I'M Going To Take Out $ 900 and Discount It Back a Year by 1 05 and that Will Give Me a Number Such that When I Compute the Yield on that Number Relative to $ 1000 It Will Have the Total Yield of this Bond 5 % of Which Is the Risk-Free Part and the Other Part Is the Default Part Okay but I Want To Keep this Example Simple So Let's Just Assume that the Risk-Free Rate of Interest Is Zero
It Will Have the Total Yield of this Bond 5 % of Which Is the Risk-Free Part and the Other Part Is the Default Part Okay but I Want To Keep this Example Simple So Let's Just Assume that the Risk-Free Rate of Interest Is Zero Okay So I'Ve Got My Bond That Pays Off a Thousand Dollars Next Period with Probability 90 % so the Expected Value Is 0 9 Times a Thousand Plus Point 10 Times Nothing $ 900 for this Bond Now Let's Suppose that I Have Not Just One of these Bonds
The Probability That They both Don't Pay Off in Which Case My Portfolio Is Worth Nothing Is 1 Percent Right 10 Percent Times 10 Percent and Then Whatever's Left Whatever Is Left Over Is in the Middle That Is There's a Chance that One of Them Pays Off but the Other One Doesn't Then the Portfolio's Worth a Thousand Dollars and There's an 18 Percent Chance of that So Here's the Stroke of Genius the Stroke of Genius Is To Say I'Ve Got these Two Securities That Are Not Particularly Popular on Their Own What I'M Going To Do Is To Stick Them into a Portfolio and Then I'M Going To Issue Two New Pieces of Paper each with $ 1000 Face Value so They'Re Just like the Old Pieces of Paper but There's One Difference They Have Different Priority Meaning There Is a Senior Piece of Paper and There's a Junior Piece of Paper the Senior Piece of Paper Gets Paid First and the Junior Paper Only Gets Paid if
Empirical Evidence
Hedge Funds
Are They Independent and Are They Objective
Are They Objective
Ses 9: Forward and Futures Contracts I - Ses 9: Forward and Futures Contracts I by MIT Open-CourseWare 242,869 views 10 years ago 1 hour, 19 minutes - MIT 15.401 Finance **Theory**, I, Fall 2008 View the complete course: http://ocw.mit.edu/15-401F08 Instructor: Andrew Lo License: ...
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Motivation
Forward Contracts
Futures Contracts
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Agenda
Breakdown of Balance Sheet
Cash
Accounts Receivable
Inventory
Other Assets
Accounts Payable
Accrued Expenses
Deferred Revenue
Long Term Debt
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Newton's Third Law the Forces Are Equal and Opposite
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Tidal Forces
Uniform Acceleration
The Minus Sign There Look As Far as the Minus Sign Goes all It Means Is that every One of these Particles Is Pulling on this Particle toward It as Opposed to Pushing Away from It It's Just a Convention Which Keeps Track of Attraction Instead of Repulsion Yeah for the for the Ice Master That's My Word You Want To Make Sense but if You Can Look at It as a Kind of an in Samba Wasn't about a Linear Conic Component to It because the Ice Guy Affects the Jade Guy and Then Put You Compute the Jade Guy When You Take It Yeah Now What this What this Formula Is for Is Supposing You Know the Positions or All the Others You Know that Then What Is the Force on the One
This Extra Particle Which May Be Imaginary Is Called a Test Particle It's the Thing That You'Re Imagining Testing Out the Gravitational Field with You Take a Light Little Particle and You Put It Here and You See How It Accelerates Knowing How It Accelerates Tells You How Much Force Is on It in Fact It Just Tells You How It Accelerates and You Can Go Around and Imagine Putting It in Different Places and Mapping Out the Force Field That's on that Particle or the Acceleration
It's the Thing That You'Re Imagining Testing Out the Gravitational Field with You Take a Light Little Particle and You Put It Here and You See How It Accelerates Knowing How It Accelerates Tells You How Much Force Is on It in Fact It Just Tells You How It Accelerates and You Can Go Around and Imagine Putting It in Different Places and Mapping Out the Force Field That's on that Particle or the Acceleration Field since We Already Know that the Force Is Proportional to the Mass Then We Can Just Concentrate on the Acceleration
And You Can Go Around and Imagine Putting It in Different Places and Mapping Out the Force Field That's on that Particle or the Acceleration Field since We Already Know that the Force Is Proportional to the Mass Then We Can Just Concentrate on the Acceleration the Acceleration all Particles Will Have the Same Acceleration Independent of the Mass so We Don't Even Have To Know What the Mass of the Particle Is We Put Something over There a Little Bit of Dust and We See How It Accelerates Acceleration Is a Vector and So We Map Out in Space the Acceleration of a Particle at every Point in Space either Imaginary or Real Particle
And We See How It Accelerates Acceleration Is a Vector and So We Map Out in Space the Acceleration of a Particle at every Point in Space either Imaginary or Real Particle and that Gives Us a Vector Field at every Point in Space every Point in Space There Is a Gravitational Field of Acceleration It Can Be Thought of as the Acceleration You Don't Have To Think of It as Force Acceleration the Acceleration of a Point Mass Located at that Position It's a Vector It Has a Direction It Has a Magnitude and It's a Function of Position so We Just Give It a Name the Acceleration due to All the Gravitating Objects
If Everything Is in Motion the Gravitational Field Will Also Depend on Time We Can Even Work Out What It Is We Know What the Force on the Earth Particle Is All Right the Force on a Particle Is the Mass Times the Acceleration So if We Want To Find the Acceleration Let's Take the Ayth Particle To Be the Test Particle Little Eye Represents the Test Particle over Here Let's Erase the Intermediate Step Over Here and Write that this Is in Ai Times Ai but Let Me Call It Now Capital a the Acceleration of a Particle at Position X
And that's the Way I'M GonNa Use It Well for the Moment It's Just an Arbitrary Vector Field a It Depends on Position When I Say It's a Field the Implication Is that It Depends on Position Now I Probably Made It Completely Unreadable a of X Varies from Point to Point and I Want To Define a Concept Called the Divergence of the Field Now It's Called the Divergence because One Has To Do Is the Way the Field Is Spreading Out Away from a Point for Example a Characteristic Situation

Where We Would Have a Strong Divergence for a Field Is if the Field Was Spreading Out from a Point like that the Field Is Diverging Away from the Point Incidentally if the Field Is Pointing Inward The Field Is the Same Everywhere as in Space What Does that Mean that Would Mean the Field That Has both Not Only the Same Magnitude but the Same Direction Everywhere Is in Space Then It Just Points in the Same Direction Everywhere Else with the Same Magnitude It Certainly Has no Tendency To Spread Out When Does a Field Have a Tendency To Spread Out When the Field Varies for Example It Could Be Small over Here Growing Bigger Growing Bigger Growing Bigger and We Might Even Go in the Opposite Direction and Discover that It's in the Opposite Direction and Getting Bigger in that Direction Then Clearly There's a Tendency for the Field To Spread Out Away from the Center Here the Same Thing Could Be True if It Were Varying in the Vertical

It Certainly Has no Tendency To Spread Out When Does a Field Have a Tendency To Spread Out When the Field Varies for Example It Could Be Small over Here Growing Bigger Growing Bigger Growing Bigger and We Might Even Go in the Opposite Direction and Discover that It's in the Opposite Direction and Getting Bigger in that Direction Then Clearly There's a Tendency for the Field To Spread Out Away from the Center Here the Same Thing Could Be True if It Were Varying in the Vertical Direction or Who Are Varying in the Other Horizontal Direction and So the Divergence Whatever It Is Has To Do with Derivatives of the Components of the Field

If You Found the Water Was Spreading Out Away from a Line this Way Here and this Way Here Then You'D Be Pretty Sure that some Water Was Being Pumped In from Underneath along this Line Here Well You Would See It another Way You Would Discover that the X Component of the Velocity Has a Derivative It's Different over Here than It Is over Here the X Component of the Velocity Varies along the X Direction so the Fact that the X Component of the Velocity Is Varying along the Direction There's an Indication that There's some Water Being Pumped in Here Likewise

You Can See the In and out the in Arrow and the Arrow of a Circle Right in between those Two and Let's Say that's the Bigger Arrow Is Created by a Steeper Slope of the Street It's Just Faster It's Going Fast It's Going Okay and because of that There's a Divergence There That's Basically It's Sort of the Difference between that's Right that's Right if We Drew a Circle around Here or We Would See that More since the Water Was Moving Faster over Here than It Is over Here More Water Is Flowing Out over Here Then It's Coming in Over Here

It's Just Faster It's Going Fast It's Going Okay and because of that There's a Divergence There That's Basically It's Sort of the Difference between that's Right that's Right if We Drew a Circle around Here or We Would See that More since the Water Was Moving Faster over Here than It Is over Here More Water Is Flowing Out over Here Then It's Coming In over Here Where Is It Coming from It Must Be Pumped in the Fact that There's More Water Flowing Out on One Side Then It's Coming In from the Other Side Must Indicate that There's a Net Inflow from Somewheres Else and the Somewheres Else Would Be from the Pump in Water from Underneath

Water Is an Incompressible Fluid It Can't Be Squeezed It Can't Be Stretched Then the Velocity Vector Would Be the Right Thing To Think about Them Yeah but You Could Have no You'Re Right You Could Have a Velocity Vector Having a Divergence because the Water Is Not because Water Is Flowing in but because It's Thinning Out Yeah that's that's Also Possible Okay but Let's Keep It Simple All Right and You Can Have the Idea of a Divergence Makes Sense in Three Dimensions Just As Well as Two Dimensions You Simply Have To Imagine that all of Space Is Filled with Water and There Are some Hidden Pipes Coming in Depositing Water in Different Places

Having a Divergence because the Water Is Not because Water Is Flowing in but because It's Thinning Out Yeah that's that's Also Possible Okay but Let's Keep It Simple All Right and You Can Have the Idea of a Divergence Makes Sense in Three Dimensions Just As Well as Two Dimensions You Simply Have To Imagine that all of Space Is Filled with Water and There Are some Hidden Pipes Coming in Depositing Water in Different Places so that It's Spreading Out Away from Points in Three-Dimensional Space in Three-Dimensional Space this Is the Expression for the Divergence

All Right and You Can Have the Idea of a Divergence Makes Sense in Three Dimensions Just As Well as Two Dimensions You Simply Have To Imagine that all of Space Is Filled with Water and There Are some Hidden Pipes Coming in Depositing Water in Different Places so that It's Spreading Out Away from Points in Three-Dimensional Space in Three-Dimensional Space this Is the Expression for the Divergence if this Were the Velocity Vector at every Point You Would Calculate this Quantity and that Would Tell You How Much New Water Is Coming In at each Point of Space so that's the Divergence Now There's a Theorem Which

The Divergence Could Be Over Here Could Be Over Here Could Be Over Here Could Be Over Here in Fact any Ways Where There's a Divergence Will Cause an Effect in Which Water Will Flow out of this Region Yeah so There's a Connection There's a Connection between What's Going On on the

Boundary of this Region How Much Water Is Flowing through the Boundary on the One Hand and What the Divergence Is in the Interior the Connection between the Two and that Connection Is Called Gauss's Theorem What It Says Is that the Integral of the Divergence in the Interior That's the Total Amount of Flow Coming In from Outside from underneath the Bottom of the Lake
The Connection between the Two and that Connection Is Called Gauss's Theorem What It Says Is that the Integral of the Divergence in the Interior That's the Total Amount of Flow Coming In from Outside from underneath the Bottom of the Lake the Total Integrated and Now by Integrated I Mean in the Sense of an Integral the Integrated Amount of Flow in that's the Integral of the Divergence the Integral over the Interior in the Three-Dimensional Case It Would Be Integral Dx Dy Dz over the Interior of this Region of the Divergence of a
The Integral over the Interior in the Three-Dimensional Case It Would Be Integral Dx Dy Dz over the Interior of this Region of the Divergence of a if You Like To Think of a Is the Velocity Field That's Fine Is Equal to the Total Amount of Flow That's Going Out through the Boundary and How Do We Write that the Total Amount of Flow That's Flowing Outward through the Boundary We Break Up Let's Take the Three-Dimensional Case We Break Up the Boundary into Little Cells each Little Cell Is a Little Area
So We Integrate the Perpendicular Component of the Flow over the Surface That's through the Sigma Here That Gives Us the Total Amount of Fluid Coming Out per Unit Time for Example and that Has To Be the Amount of Fluid That's Being Generated in the Interior by the Divergence this Is Gauss's Theorem the Relationship between the Integral of the Divergence on the Interior of some Region and the Integral over the Boundary Where Where It's Measuring the Flux the Amount of Stuff That's Coming Out through the Boundary Fundamental Theorem and Let's Let's See What It Says Now And Now Let's See Can We Figure Out What the Field Is Elsewhere outside of Here So What We Do Is We Draw a Surface Around There We Draw a Surface Around There and Now We'Re Going To Use Gauss's Theorem First of all Let's Look at the Left Side the Left Side Has the Integral of the Divergence of the Vector Field All Right the Vector Field or the Divergence Is Completely Restricted to some Finite Sphere in Here What Is Incidentally for the Flow Case for the Fluid Flow Case What Would Be the Integral of the Divergence Does Anybody Know if It Really Was a Flue or a Flow of a Fluid
So What We Do Is We Draw a Surface Around There We Draw a Surface Around There and Now We'Re Going To Use Gauss's Theorem First of all Let's Look at the Left Side the Left Side Has the Integral of the Divergence of the Vector Field All Right the Vector Field or the Divergence Is Completely Restricted to some Finite Sphere in Here What Is Incidentally for the Flow Case for the Fluid Flow Case What Would Be the Integral of the Divergence Does Anybody Know if It Really Was a Flue or a Flow of a Fluid It'Ll Be the Total Amount of Fluid That Was Flowing
Why because the Integral over that There Vergence of a Is Entirely Concentrated in this Region Here and There's Zero Divergence on the Outside So First of All the Left Hand Side Is Independent of the Radius of this Outer Sphere As Long as the Radius of the Outer Sphere Is Bigger than this Concentration of Divergence Iya so It's a Number Altogether It's a Number Let's Call that Number M I'M Not Evan Let's Just Qq That's the Left Hand Side and It Doesn't Depend on the Radius on the Other Hand What Is the Right Hand Side Well There's a Flow Going Out and if Everything Is Nice and Spherically Symmetric Then the Flow Is Going To Go Radially Outward
So a Point Mass Can Be Thought of as a Concentrated Divergence of the Gravitational Field Right at the Center Point Mass the Literal Point Mass Can Be Thought of as a Concentrated Concentrated Divergence of the Gravitational Field Concentrated in some Very Very Small Little Volume Think of It if You like You Can Think of the Gravitational Field as the Flow Field or the Velocity Field of a Fluid That's Spreading Out Oh Incidentally of Course I'Ve Got the Sign Wrong Here the Real Gravitational Acceleration Points Inward Which Is an Indication that this Divergence Is Negative the Divergence Is More like a Convergence Sucking Fluid in So the Newtonian Gravitational
Or There It's a Spread Out Mass this Big As Long as You'Re outside the Object and As Long as the Object Is Spherically Symmetric in Other Words As Long as the Object Is Shaped like a Sphere and You'Re outside of It on the Outside of It outside of Where the Mass Distribution Is Then the Gravitational Field of It Doesn't Depend on whether It's a Point It's a Spread Out Object whether It's Denser at the Center and Less Dense at the Outside Less Dense in the Inside More Dense on the Outside all It Depends on Is the Total Amount of Mass the Total Amount of Mass Is like the Total Amount of Flow
Whether It's Denser at the Center and Less Dense at the Outside Less Dense in the Inside More Dense on the Outside all It Depends on Is the Total Amount of Mass the Total Amount of Mass Is like the Total Amount of Flow through Coming into the that Theorem Is Very Fundamental and Important

to Thinking about Gravity for Example Supposing We Are Interested in the Motion of an Object near the Surface of the Earth but Not So near that We Can Make the Flat Space Approximation Let's Say at a Distance Two or Three or One and a Half Times the Radius of the Earth
It's Close to this Point that's Far from this Point That Sounds like a Hellish Problem To Figure Out What the Gravitational Effect on this Point Is but Know this Tells You the Gravitational Field Is Exactly the Same as if the Same Total Mass Was Concentrated Right at the Center Okay That's Newton's Theorem Then It's Marvelous Theorem It's a Great Piece of Luck for Him because without It He Couldn't Have Couldn't Have Solved His Equations He Knew He Meant but It May Have Been Essentially this Argument I'M Not Sure Exactly What Argument He Made but He Knew that with the 1 over R Squared Force Law and Only the One over R Squared Force Law Wouldn't Have Been Truth Was One of Our Cubes 1 over R to the Fourth 1 over R to the 7th
But He Knew that with the 1 over R Squared Force Law and Only the One over R Squared Force Law Wouldn't Have Been Truth Was One of Our Cubes 1 over R to the Fourth 1 over R to the 7th with the 1 over R Squared Force Law a Spherical Distribution of Mass Behaves Exactly as if All the Mass Was Concentrated Right at the Center As Long as You'Re outside the Mass so that's What Made It Possible for Newton To To Easily Solve His Own Equations That every Object As Long as It's Spherical Shape Behaves as if It Were Appoint Appointments
But Yes We Can Work Out What Would Happen in the Mine Shaft but that's Right It Doesn't Hold It a Mine Shaft for Example Supposing You Dig a Mine Shaft Right Down through the Center of the Earth Okay and Now You Get Very Close to the Center of the Earth How Much Force Do You Expect that We Have Pulling You toward the Center Not Much Certainly Much Less than if You Were than if All the Mass Will Concentrate a Right at the Center You Got the It's Not Even Obvious Which Way the Force Is but It Is toward the Center
So the Consequence Is that if You Made a Spherical Shell of Material like that the Interior Would Be Absolutely Identical to What It What It Would Be if There Was no Gravitating Material There At All on the Other Hand on the Outside You Would Have a Field Which Would Be Absolutely Identical to What Happens at the Center Now There Is an Analogue of this in the General Theory of Relativity We'Ll Get to It Basically What It Says Is the Field of Anything As Long as It's Fairly Symmetric on the Outside Looks Identical to the Field of a Black Hole I Think We'Re Finished for Tonight Go over Divergence and All those Gauss's Theorem Gauss's Theorem Is Central
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