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China's widespread crackdown on bitcoin has sent the hash rate plummeting and miners fleeing China, but many remain optimistic about the cryptocurrency's future.

China's bitcoin crackdown: why is it happening and what's next for the original cryptocurrency?
Such complex issues are best understood through interdisciplinary study. These paired classes will introduce basic principles of economics, law, and public policy through the lens of contemporary ...

Complex Problems & Enduring Questions
However, solving these equations directly consumes time and gets more difficult, the more complex the system is, forcing researchers to use approximations rather than all variables of the ... able to ...

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But explaining a model's general behavior beyond its individual predictions—and the constellation of complex ... variables in play—it's the difference between addressing the actual problem ...

A New Approach to an Old AI Problem
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Carbon Markets and Conservation
Proof for 'The Riemann Hypothesis', a millennium problem in mathematics which ... methods involving the calculus of functions of a complex variable, according to the statement.

SNIST physicist finds solution for Riemann Hypothesis
When asked for help on a complex problem, he would say, "Let's go back to first principles," and break the problem down into parts that could be analysed simply. With typical self ...

Letter: Michael Parsons obituary
The answer, in part, relates to climate change manifesting a classic problem of collective action (2, 9). One obstacle to collective action may be rooted in the public understanding of the complex (10 ...

The geographic disparity of historical greenhouse emissions and projected climate change
There is no better example of how history is enlisted to fight future wars than the "principles of war." This laundry list of how to fight, incorporated in American military doctrine, has been around ...

America and the March Toward Modern Conflict
For our purposes, we will define a Messiah Complex as a person's belief that he or she can "fix" or "save" another person from their problems ... as you put these principles into ...

How Do You Cure a Messiah Complex?
Topics include elementary counting principles ... and least squares problems, including sparse matrix techniques with applications to partial differential equations. MTH 4329 - Theory of Functions of ...

Undergraduate Course Descriptions
Survey, 58% of service providers said they would increase their spend in artificial Intelligence (AI) tools in 2021, and 78% of service providers ranked the use of AI to automate network operations.

AI and Reinforcement Learning Can Help Optimize Massive MIMO Performance
The everlasting rat's nest that is scientific computing data management, the permanent striving for more advanced-level processing power, and investments in new fabs for advanced chips are HPC topics ...

HPC in the News: Data Management Automation and Faster Processor Gates; Intel and TSMC in Arizona, Europe
Emotion has always been an important variable of a customer's purchase ... boycott in China following the Uighur scandal shows the complex connection between ethics, politics and business.

The era of the political and ethical customer
The American Property Casualty Insurance Association issued the following news release on July 1, 2021:. The American Property Casualty Insurance Association today announced its Cyber ...

American Property Casualty Insurance Association Announces Strong Cyber Extortion/Ransomware Guiding Principles
A new phase 2 clinical trial of multiple therapies for severe asthma is underway in Northeast Ohio, with a focus on personalized therapies based on genetics, family history, lifestyle and ...

This textbook introduces the theory of complex variables at undergraduate level. A good collection of problems is provided in the second part of the book. The book is written in a user-friendly style that presents important fundamentals a beginner needs to master the technical details of the subject. Similarly, teachers can also adopt the text for a course on complex variables and for mining problems. The organization of problems into focused sets is an important feature of the book.

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Fundamentals of analytic function theory – plus lucid exposition of 5 important applications: potential theory, ordinary differential equations, Fourier transforms, Laplace transforms, and asymptotic expansions. Includes 66 figures.

This text on complex variables is geared toward graduate students and undergraduates who have taken an introductory course in real analysis. It is a substantially revised and updated edition of the popular text by Robert B. Ash, offering a concise treatment that provides careful and complete explanations as well as numerous problems and solutions. An introduction presents basic definitions, covering topology of the plane, analytic functions, real-differentiability and the Cauchy-Riemann equations, and exponential and harmonic functions. Succeeding chapters examine the elementary theory and the general Cauchy theorem and its applications; entire functions; families of analytic functions; and the prime number theorem. The application of many of the ideas and results appearing in earlier chapters, the text ends with a proof of the prime number theorem.

Complex Variables deals with complex variables and covers topics ranging from Cauchy's theorem to entire functions, families of analytic functions, and the prime number theorem. Major applications of the basic principles, such as residue theory, the Poisson integral, and analytic continuation are given. Comprised of seven chapters, this book begins with an introduction to the basic definitions and concepts in complex variables such as the extended plane, analytic and elementary functions, and Cauchy-Riemann equations. The first chapter defines the integral of a complex function on a path in the complex plane and develops the machinery to prove an elementary version of Cauchy's theorem. Some applications, including the basic properties of power series, are then presented. Subsequent chapters focus on the general Cauchy theorem and its applications; entire functions; families of analytic functions; and the prime number theorem. The geometric intuition underlying the concept of winding number is emphasized. The linear space viewpoint is also discussed, along with analytic number theory, residue theory, and the Poisson integral. This book is intended primarily for students who are just beginning their professional training in mathematics.

The new Second Edition of A First Course in Complex Analysis with Applications is a truly accessible introduction to the fundamental principles and applications of complex analysis. Designed for the undergraduate student with a calculus background but no prior experience with complex variables, this text discusses theory of the most relevant mathematical topics in a student-friendly manor. With Zill's clear and straightforward writing style, concepts are introduced through numerous examples and clear illustrations. Students are guided and supported through numerous proofs providing them with a higher level of mathematical insight and maturity. Each chapter contains a separate section on the applications of complex variables, providing students with the opportunity to develop a practical and clear understanding of complex analysis.

Several Complex Variables and the Geometry of Real Hypersurfaces covers a wide range of information from basic facts about holomorphic functions of several complex variables through deep results such as subelliptic estimates for the ?-Neumann problem on pseudoconvex domains with a real analytic boundary. The book focuses on describing the geometry of a real hypersurface in a complex vector space by understanding its relationship with ambient complex analytic varieties. You will learn how to decide whether a real hypersurface contains complex varieties, how closely such varieties can contact the hypersurface, and why it's important. The book concludes with two sets of problems: routine problems and difficult problems (many of which are unsolved). Principal prerequisites for using this book include a thorough understanding of advanced calculus and standard knowledge of complex analysis in one variable. Several Complex Variables and the Geometry of Real Hypersurfaces will be a useful text for advanced graduate students and professionals working in complex analysis.

A quick and easy-to-use introduction to the key topics in complex variables, for mathematicians and non-mathematicians alike.

"This book presents a basic introduction to complex analysis in both an interesting and a rigorous manner. It contains enough material for a full year's course, and the choice of material treated is reasonably standard and should be satisfactory for most first courses in complex analysis. The approach to each topic appears to be carefully thought out both as to mathematical treatment and pedagogical presentation, and the end result is a very satisfactory book." --MATHSCINET