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The Map of Mathematics

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Course Description This course is about the mathematics that is most widely used in the mechanical engineering core subjects: An introduction to linear algebra and ordinary differential equations (ODEs), including general numerical approaches to solving systems of equations.

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Syllabus | Engineering-Math-1-MIT-OpenCourseWare

His experience of teaching mathematics stretches over a timespan of around 10 years. He has earned a degree in computer engineering from Mumbai University. Apart from this, he also has an industrial experience in an MNC for 3 years of employment. He is an extraordinary person when it comes to innovation, technology & entrepreneurship.

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Methods, Optimization in Operations Research, Advance Discrete Mathematics, Engineering Mathematics I–III, Advanced Mathematics, and the like. He is also on the editorial board and a review ...

Differential equations and linear algebra are two central topics in the undergraduate mathematics curriculum. This innovative textbook allows the two subjects to be developed either separately or together, illuminating the connections between two fundamental topics, and giving increased flexibility to instructors. It can be used either as a semester-long course in differential equations, or as a one-year course in differential equations, linear algebra, and applications. Beginning with the basics of differential equations, it covers first and second order equations, graphical and numerical methods, and matrix equations. The book goes on to present the fundamentals of vector spaces, followed by eigenvalues and eigenvectors, positive definiteness, integral transform methods and applications to PDEs. The exposition illuminates the natural correspondence between solution methods for systems of equations in discrete and continuous settings. The topics draw on the physical sciences, engineering and economics, reflecting the author's distinguished career as an applied mathematician and expositor.

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.

An antidote to mathematical rigor mortis, teaching how to guess answers without needing a proof or an exact calculation. In problem solving, as in street fighting, rules are for fools: do whatever works—don't just stand there! Yet we often fear an unjustified leap even though it may land us on a correct result. Traditional mathematics teaching is largely about solving exactly stated problems exactly, yet life often hands us partly defined problems needing only moderately accurate solutions. This engaging book is an antidote to the rigor mortis brought on by too much mathematical rigor, teaching us how to guess answers without needing a proof or an exact calculation. In Street-Fighting Mathematics, Sanjoy Mahajan builds, sharpens, and demonstrates tools for educated guessing and down-and-dirty, opportunistic problem solving across diverse fields of knowledge—from mathematics to management. Mahajan describes six tools: dimensional analysis, easy cases, lumping, picture proofs, successive approximation, and reasoning by analogy. Illustrating each tool with numerous examples, he carefully separates the tool—the general principle—from the particular application so that the reader can most easily grasp the tool itself to use on problems of particular interest. Street-Fighting Mathematics grew out of a short course taught by the author at MIT for students ranging from first-year undergraduates to graduate students ready for careers in physics, mathematics, management, electrical engineering, computer science, and biology. They benefited from an approach that avoided rigor and taught them how to use mathematics to solve real problems. Street-Fighting Mathematics will appear in print and online under a Creative Commons Noncommercial Share Alike license.

An introductory engineering textbook by an award-winning MIT professor that covers the history of dynamics and the dynamical analyses of mechanical, electrical, and electromechanical systems. This introductory textbook offers a distinctive blend of the modern and the historical, seeking to encourage an appreciation for the history of dynamics while also presenting a framework for future learning. The text presents engineering mechanics as a unified field, emphasizing dynamics but integrating topics from other disciplines, including design and the humanities. The book begins with a history of mechanics, suitable for an undergraduate overview. Subsequent chapters cover such topics as three-dimensional kinematics; the direct approach, also known as vectorial mechanics or the momentum approach; the indirect approach, also called lagrangian dynamics or variational dynamics; an expansion of the momentum and lagrangian formulations to extended bodies; lumped-parameter electrical and electromagnetic devices; and equations of motion for one-dimensional continuum models. The book is noteworthy in covering both lagrangian dynamics and vibration analysis. The principles covered are relatively few and easy to articulate; the examples are rich and broad. Summary tables, often in the form of flowcharts, appear throughout. End-of-chapter problems begin at an elementary level and become increasingly difficult. Appendixes provide theoretical and mathematical support for the main text.

Tools to make hard problems easier to solve. In this book, Sanjoy Mahajan shows us that the way to master complexity is through insight rather than precision. Precision can overwhelm us with information, whereas insight connects seemingly disparate pieces of information into a simple picture. Unlike computers, humans depend on insight. Based on the author's fifteen years of teaching at MIT, Cambridge University, and Olin College, *The Art of Insight in Science and Engineering* shows us how to build insight and find understanding, giving readers tools to help them solve any problem in science and engineering. To master complexity, we can organize it or discard it. *The Art of Insight in Science and Engineering* first teaches the tools for organizing complexity, then distinguishes the two paths for discarding complexity: with and without loss of information. Questions and problems throughout the text help readers master and apply these groups of tools. Armed with this three-part toolchest, and without complicated mathematics, readers can estimate the flight range of birds and planes and the strength of chemical bonds, understand the physics of pianos and xylophones, and explain why skies are blue and sunsets are red. *The Art of Insight in Science and Engineering* will appear in print and online under a Creative Commons Noncommercial Share Alike license.

A New York Times bestseller John Urschel, mathematician and former offensive lineman for the Baltimore Ravens, tells the story of a life balanced between two passions For John Urschel, what began as an insatiable appetite for puzzles as a child developed into mastery of the elegant systems and rules of mathematics. By the time he was thirteen, Urschel was auditing a college-level calculus course. But when he joined his high school football team, a new interest began to eclipse the thrill he felt in the classroom. Football challenged Urschel in an entirely different way, and he became addicted to the physical contact of the sport. After he accepted a scholarship to play at Penn State, his love of math was rekindled. As a Nitnany Lion, he refused to sacrifice one passion for the other. Against the odds, Urschel found a way to manage his double life as a scholar and an athlete. While he was an offensive lineman for the Baltimore Ravens, he simultaneously pursued his PhD in mathematics at MIT. Weaving together two separate narratives, Urschel relives for us the most pivotal moments of his bifurcated life. He explains why, after Penn State was sanctioned for the acts of former coach Jerry Sandusky, he declined offers from prestigious universities and refused to abandon his team. He describes his parents' different influences and their profound effect on him, and he opens up about the correlation between football and CTE and the risks he took for the game he loves. Equally at home discussing Georg Cantor's work on infinities and Bill Belichick's playbook, Urschel reveals how each challenge—whether on the field or in the classroom—has brought him closer to understanding the two different halves of his own life, and how reason and emotion, the mind and the body, are always working together. "So often, people want to divide the world into two," he observes. "Matter and energy. Wave and particle. Athlete and mathematician. Why can't something (or someone) be both?"

Now celebrating the 42nd anniversary of *The Hitchhiker's Guide to the Galaxy*, soon to be a Hulu original series! "Wild satire... The feckless protagonist, Arthur Dent, is reminiscent of Vonnegut heroes." —Chicago Tribune *The unhappy inhabitants of planet Krikkit are sick of looking at the night sky above their heads—so they plan to destroy it. The universe, that is. Now only five individuals stand between the killer robots of Krikkit and their goal of total annihilation. They are Arthur Dent, a mild-mannered space and time traveler who tries to learn how to fly by throwing himself at the ground and missing; Ford Prefect, his best friend, who decides to go insane to see if he likes it; Slartibartfast, the indomitable vice president of the Campaign for Real Time, who travels in a ship powered by irrational behavior; Zaphod Beeblebrox, the two-headed, three-armed ex-president of the galaxy; and Trillian, the sexy space cadet who is torn between a persistent Thunder God and a very depressed Beeblebrox. How will it all end? Will it end? Only this stalwart crew knows as they try to avert "universal " Armageddon and save life as we know it—and don't know it! " Adams is one of those rare treasures: an author who, one senses, has as much fun writing as one has reading." —Arizona Daily Star*

An engineering-oriented introduction to wave propagation by an award-winning MIT professor, with highly accessible expositions and mathematical details—many classical but others not heretofore published. A wave is a traveling disturbance or oscillation—intentional or unintentional—that usually transfers energy without a net displacement of the medium in which the energy travels. Wave propagation is any of the means by which a wave travels. This book offers an engineering-oriented introduction to wave propagation that focuses on wave propagation in one-dimensional models that are anchored by the classical wave equation. The text is written in a style that is highly accessible to undergraduates, featuring extended and repetitive expositions and displaying and explaining mathematical and physical details—many classical but others not heretofore published. The formulations are devised to provide analytical foundations for studying more advanced topics of wave propagation. After a precalculus summary of rudimentary wave propagation and an introduction of the classical wave equation, the book presents solutions for the models of systems that are dimensionally infinite, semi-infinite, and finite. Chapters typically begin with a vignette based on some aspect of wave propagation, drawing on a diverse range of topics. The book provides more than two hundred end-of-chapter problems (supplying answers to most problems requiring a numerical result or brief analytical expression). Appendixes cover equations of motion for strings, rods, and circular shafts; shear beams; and electric transmission lines.

A textbook that offers a unified treatment of the applications of hydrodynamics to marine problems. The applications of hydrodynamics to naval architecture and marine engineering expanded dramatically in the 1960s and 1970s. This classic textbook, originally published in 1977, filled the need for a single volume on the applications of hydrodynamics to marine problems. The book is solidly based on fundamentals, but it also guides the student to an understanding of engineering applications through its consideration of realistic configurations. The book takes a balanced approach between theory and empirics, providing the necessary theoretical background for an intelligent evaluation and application of empirical procedures. It also serves as an introduction to more specialized research methods. It unifies the seemingly diverse problems of marine hydrodynamics by examining them not as separate problems but as related applications of the general field of hydrodynamics. The book evolved from a first-year graduate course in MIT's Department of Ocean Engineering. A knowledge of advanced calculus is assumed. Students will find a previous introductory course in fluid dynamics helpful, but the book presents the necessary fundamentals in a self-contained manner. The 40th anniversary of this pioneering book offers a foreword by John Grue. Contents Model Testing • The Motion of a Viscous Fluid • The Motion of an Ideal Fluid • Lifting Surfaces • Waves and Wave Effects • Hydrodynamics of Slender Bodies

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