

## Matematica Basica 1 Saal

El libro está dividido en dos partes principales. La primera parte (capítulos 1 a 9) incluye el material que constituye normalmente el curso de introducción a las ecuaciones diferenciales ordinarias. La segunda parte (capítulos 10 a 14) introduce al lector en ciertos métodos especializados y más avanzados, proporcionando una introducción sistemática a la teoría fundamental. El examen del índice revela cómo se han presentado los temas.

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Elementary introduction to stable maps and quantum cohomology presents the problem of counting rational plane curves Viewpoint is mostly that of enumerative geometry Emphasis is on examples, heuristic discussions, and simple applications to best convey the intuition behind the subject Ideal for self-study, for a mini-course in quantum cohomology, or as a special topics text in a standard course in intersection theory

With the immediacy of today's NASDAQ close and the timeless power of a Greek tragedy, *The Quants* is at once a masterpiece of explanatory journalism, a gripping tale of ambition and hubris, and an ominous warning about Wall Street's future. In March of 2006, four of the world's richest men sipped champagne in an opulent New York hotel. They were preparing to compete in a poker tournament with million-dollar stakes, but those numbers meant nothing to them. They were accustomed to risking billions. On that night, these four men and their cohorts were the new kings of Wall Street. Muller, Griffin, Asness, and Weinstein were among the best and brightest of a new breed, the quants. Over the prior twenty years, this species of math whiz--technocrats who make billions not with gut calls or fundamental analysis but with formulas and high-speed computers--had usurped the testosterone-fueled, kill-or-be-killed risk-takers who'd long been the alpha males the world's largest casino. The quants helped create a digitized money-trading machine that could shift billions around the globe with the click of a mouse. Few realized, though, that in creating this unprecedented machine, men like Muller, Griffin, Asness and Weinstein had sowed the seeds for history's greatest financial disaster. Drawing on unprecedented access to these four number-crunching titans, *The Quants* tells the inside story of what they thought and felt in the days and weeks when they helplessly watched much of their net worth vaporize--and wondered just how their mind-bending formulas and genius-level IQ's had led them so wrong, so fast.

Esta obra visa apresentar a sistemática de organização de materiais e da estrutura física de laboratórios de manipulação, os equipamentos e seu funcionamento. Orienta sobre a verificação da qualidade das matérias-primas utilizadas nas formulações de produtos farmacêuticos e dermocosméticos. Aborda as características da estrutura física de um laboratório e os aspectos relacionados à biossegurança. Versa sobre técnicas gerais de limpeza, assepsia e descontaminação do local, de materiais e de equipamentos. Explica as unidades de medidas e os cálculos empregados no dia a dia dos laboratórios de manipulação. Traz informações sobre controle de temperatura e umidade. Discorre sobre serviços e técnicas auxiliares na elaboração, rotulagem e armazenamento/conservação de insumos, medicamentos e cosméticos. Mostra os utensílios e as vidrarias utilizados nos laboratórios de manipulação. O conteúdo pode ser aplicado para os cursos técnicos em Farmácia, Química, entre outros. Possui material de apoio.

Mathematica Cookbook helps you master the application's core principles by walking you through real-world problems. Ideal for browsing, this book includes recipes for working with numerics, data structures, algebraic equations, calculus, and statistics. You'll also venture into exotic territory with recipes for data visualization using 2D and 3D graphic tools, image processing, and music. Although Mathematica 7 is a highly advanced computational platform, the recipes in this book make it accessible to everyone -- whether you're working on high school algebra, simple graphs, PhD-level computation, financial analysis, or advanced engineering models. Learn how to use Mathematica at a higher level with functional programming and pattern matching Delve into the rich library of functions for string and structured text manipulation Learn how to apply the tools to physics and engineering problems Draw on Mathematica's access to physics, chemistry, and biology data Get techniques for solving equations in computational finance Learn how to use Mathematica for sophisticated image processing Process music and audio as musical notes, analog waveforms, or digital sound samples

An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, *Deep Learning* is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. *Deep Learning* can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

Contenidos 1. Ecuaciones y sistemas de ecuaciones 2. Figuras geométricas 3. Funciones y estadística 4. El método científico y la aplicación de técnicas físicas y químicas 5. La reacción química 6. Reacciones químicas y nucleares 7. Cambios en el relieve y paisaje de la Tierra 8. La contaminación del medio ambiente 9. Equilibrio medioambiental y desarrollo sostenible 10. Fuerzas y movimiento 11. La energía eléctrica 12. Salud y prevención de enfermedades Anexos: Tablas de formulación y nomenclatura de compuestos químicos / Tabla periódica de los elementos químicos

1. Niveles de organización y función de la nutrición 2. Función de relación y reproducción 3. Salud y enfermedad 4. Alimentación saludable 5. Unidades de medida 6. El trabajo de laboratorio 7. La materia 8. Separación de mezclas y sustancias 9. La energía en los procesos naturales

La matemática discreta es la parte de las matemáticas que trata de estructuras finitas y numerables. Esta nueva rama de la ciencia matemática ha recibido un impulso decisivo gracias a los recientes progresos de la informática y las técnicas de computación. Las líneas básicas de las que se ocupa son las técnicas de numeración, las estructuras combinatorias, la teoría de grafos y las estructuras algebraicas. Asimismo, la algorítmica constituye una herramienta imprescindible para la construcción de soluciones a los problemas que se presentan. Este libro intenta presentar una visión concisa y completa de todos estos temas.

This book provides glimpses into contemporary research in information systems & technology, learning, artificial intelligence (AI), machine learning, and security and how it applies to the real world, but the ideas presented also span the domains of telehealth, computer vision, the role and use of mobile devices, brain-computer interfaces, virtual reality, language and image processing and big data analytics and applications. Great research arises from asking pertinent research questions. This book reveals some of the authors' "beautiful questions" and how they develop the subsequent "what if" and "how" questions, offering readers food for thought and whetting their appetite for further research by the same authors.

The Britannica Enciclopedia Moderna covers all fields of knowledge, including arts, geography, philosophy, science, sports, and much more. Users will enjoy a quick reference of 24,000 entries and 2.5 million words. More than 4,800 images, graphs, and tables further enlighten students and clarify subject matter. The simple A-Z organization and clear descriptions will appeal to both Spanish speakers and students of Spanish.

Descripción del editor: "Descripción: El libro está pensado para que el estudiante adquiera los conceptos fundamentales de la informática, así como las capacidades de análisis, diseño e implementación de programación de una manera amena, directa y sobre todo práctica. Para ello utiliza dos de los lenguajes más utilizados en los distintos campos de las ingenierías como son el lenguaje C y Matlab. El libro presenta más de 150 ejercicios de fundamentos de informática con las correspondientes soluciones y más de 150 ejercicios resueltos de programación que permiten el auto aprendizaje"

With this second volume, we enter the intriguing world of complex analysis. From the first theorems on, the elegance and sweep of the results is evident. The starting point is the simple idea of extending a function initially given for real values of the argument to one that is defined when the argument is complex. From there, one proceeds to the main properties of holomorphic functions, whose proofs are generally short and quite illuminating: the Cauchy theorems, residues, analytic continuation, the argument principle. With this background, the reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics: the Fourier transform treated by contour integration, the zeta function and the prime number theorem, and an introduction to elliptic functions culminating in their application to combinatorics and number theory. Thoroughly developing a subject with many ramifications, while striking a careful balance between conceptual insights and the technical underpinnings of rigorous analysis, Complex Analysis will be welcomed by students of mathematics, physics, engineering and other sciences. The Princeton Lectures in Analysis represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them. Numerous examples and applications throughout its four planned volumes, of which Complex Analysis is the second, highlight the far-reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences. Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in-depth considerations of complex analysis; measure and integration theory, and Hilbert spaces; and, finally, further topics such as functional analysis, distributions and elements of probability theory.

Includes a separately paged section "Repertorio bibliográfico clasificado por materias" which also appears in Libros nuevos.

Known for its accessible, precise approach, Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that ideas of discrete mathematics underlie and are essential to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Este texto recoge las experiencias de los autores en su desempeño profesional y docente en la materia de instrumentación electrónica e industrial. Comprende, además de un enfoque compacto sobre la esencia del diseño electrónico (hardware y software) de los sistemas de instrumentación, una serie de temas no tratados en la bibliografía corriente sobre la materia, que clarifican conceptos importantes como: interpretación y definición de las incertidumbres de los sistemas de medición que se diseñan o manejan, aplicación de la retroalimentación negativa y discusión en detalle de algunos componentes discretos importantes. Finalmente se expone la nomenclatura para la elaboración de diagramas.

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Nesse livro, a nutrição – tão importante em nossos dias – é tema gerador para propostas de trabalho destinadas a todas as disciplinas e segmentos da educação fundamental. As autoras trazem aqui muitas sugestões de práticas para serem adotadas dentro e fora da sala de aula, com base em informações nutricionais e discussões pedagógicas explicitamente interdisciplinares. Como pano de fundo, a obra introduz diversos aspectos da realidade brasileira que criam múltiplos pontos de partida para que o professor possa explorar caminhos profícuos, não se restringindo assim à alimentação. É destaque ainda a motivação como importante fator de sucesso no processo de ensino e aprendizagem. O livro valoriza o diálogo entre as autoras e o leitor, a forte relação entre teoria e prática, além de colocar o aluno como protagonista ativo, que participa de situações comunicativas concretas nas quais sua contribuição é respeitada.

De onde veio a matemática? Quem pensou em todos aqueles símbolos algébricos e por quê? Qual a história por trás de ??... dos números negativos?... do sistema métrico?... das equações quadráticas? ... dos senos e cossenos?... Os 25 esboços independentes na obra respondem essas e muitas outras questões em um estilo informal e agradável, que é acessível a professores, estudantes e a qualquer um que esteja curioso sobre as idéias da história da matemática. Cada esboço contém Questões e Projetos para ajudá-

lo a aprender mais sobre seu t3pico e para perceber como suas principais id3eias se ajustam no contexto geral da hist3oria. Essas 25 curtas hist3orias s3o precedidas por uma pequena vis3o geral a respeito de 56 p3ginas de todo o panorama da hist3oria da matem3tica, uma r3pida excurs3o 3s pessoas, eventos e tend3ncias que deram forma 3 matem3tica que conhecemos atualmente. "O que Ler a Seguir" e sugest3es de leitura ap3s cada esboço fornecem pontos de partida para leitores que queiram se aprofundar mais em determinado t3pico. Este livro 3 ideal para um vasto espectro de audi3ncia, incluindo estudantes em disciplinas de hist3oria da matem3tica do final do ensino m3dio ou in3cio do superior, professores em treinamento ou j3 em exerc3cio e leitores casuais que queiram apenas saber um pouco mais sobre as origens da matem3tica.

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