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MATHEMATICS FOR MACHINE LEARNING

Cambridge University Press Distills key concepts from linear algebra, geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.

CALCULUS FOR BUSINESS, ECONOMICS, AND THE SOCIAL AND LIFE SCIENCES

Calculus for Business, Economics, and the Social and Life Sciences introduces calculus in real-world contexts and provides a sound, intuitive understanding of the basic concepts students need as they pursue careers in business, the life sciences, and the social sciences. The new Ninth Edition builds on the straightforward writing style, practical applications from a variety of disciplines, clear step-by-step problem solving techniques, and comprehensive exercise sets that have been hallmarks of Hoffmann/Bradley's success through the years.

EBOOK: APPLIED CALCULUS FOR BUSINESS, ECONOMICS AND THE SOCIAL AND LIFE SCIENCES, EXPANDED EDITION

McGraw Hill Applied Calculus for Business, Economics, and the Social and Life Sciences, Expanded Edition provides a sound, intuitive understanding of the basic concepts students need as they pursue careers in business, economics, and the life and social sciences. Students achieve success using this text as a result of the author's applied and real-world orientation to concepts, problem-solving approach, straight forward and concise writing style, and comprehensive

exercise sets. More than 100,000 students worldwide have studied from this text!

SCHAUM'S OUTLINE OF CALCULUS FOR BUSINESS, ECONOMICS, AND THE SOCIAL SCIENCES

McGraw Hill Professional Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

PRECALCULUS

"Precalculus is intended for college-level precalculus students. Since precalculus courses vary from one institution to the next, we have attempted to meet the needs of as broad an audience as possible, including all of the content that might be covered in any particular course. The result is a comprehensive book that covers more ground than an instructor could likely cover in a typical one- or two-semester course; but instructors should find, almost without fail, that the topics they wish to include in their syllabus are covered in the text. Many chapters of OpenStax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry; however, instructors of those courses might need to supplement or adjust the material. OpenStax will also be releasing College Algebra and Algebra and trigonometry titles tailored to the particular scope, sequence, and pedagogy of those courses."--Preface.

ADVANCED CALCULUS

REVISED

World Scientific Publishing Company An authorised reissue of the long out of print classic textbook, Advanced Calculus

by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

BUSINESS CALCULUS DEMYSTIFIED

Mcgraw-hill Take the FEAR OUT of Business Calculus Business Calculus Demystified clarifies the concepts and processes of calculus and demonstrates their applications to the workplace. Best-selling math author Rhonda Huettenmueller uses the same combination of winning step-by-step teaching techniques and real-world business and mathematical examples that have succeeded with tens of thousands of college students, regardless of their math experience or affinity for the subject. With Business Calculus Demystified, you learn at your own pace. You get explanations that make differentiation and integration -- the main concepts of calculus -- understandable and interesting. This unique self-teaching guide reinforces learning, builds your confidence and skill, and continuously demonstrates your mastery of topics with a wealth of practice problems and detailed solutions throughout, multiple-choice quizzes at the end of each chapter, and a "final exam" that tests your total understanding of business calculus. Learn business calculus for the real world! This self-teaching course conquers confusion with clarity and ease. Get ready to: Get a solid foundation right from the start with a review of algebra Master one idea per section -- develop complete, comfortable understanding of a topic before proceeding to the next Find a well-explained definition of the derivative and its properties; instantaneous rates of change; the power, product, quotient, and chain rules; and layering different formulas Learn methods for maximizing revenue and profit... minimizing cost... and solving other

optimizing problems See how to use calculus to sketch graphs Understand implicit differentiation, rational functions, exponents, and logarithm functions -- learn how to use log properties to simplify differentiation Painlessly learn integration formulas and techniques and applications of the integral Take a "final exam" and grade it yourself! Who says business calculus has to be boring? Business Calculus Demystified is a lively and entertaining way to master this essential math subject!

PROBLEMS AND PROBLEM SOLVING IN CHEMISTRY EDUCATION

ANALYSING DATA, LOOKING FOR PATTERNS AND MAKING DEDUCTIONS

Royal Society of Chemistry Problem solving is central to the teaching and learning of chemistry at secondary, tertiary and post-tertiary levels of education, opening to students and professional chemists alike a whole new world for analysing data, looking for patterns and making deductions. As an important higher-order thinking skill, problem solving also constitutes a major research field in science education. Relevant education research is an ongoing process, with recent developments occurring not only in the area of quantitative/computational problems, but also in qualitative problem solving. The following situations are considered, some general, others with a focus on specific areas of chemistry: quantitative problems, qualitative reasoning, metacognition and resource activation, deconstructing the problem-solving process, an overview of the working memory hypothesis, reasoning with the electron-pushing formalism, scaffolding synthesis skills, spectroscopy for structural characterization in organic chemistry, enzyme kinetics, problem solving in the academic chemistry laboratory, chemistry problem-solving in context, team-based/active learning, technology for molecular representations, IR spectra simulation, and computational quantum chemistry tools. The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry. With a foreword by George Bodner.

CALCULUS

Wellesley-Cambridge Press Gilbert Strang's clear, direct style and detailed, intensive explanations make this textbook ideal as both a course companion and for self-study. Single variable and multivariable calculus are covered in depth. Key examples of the application of calculus to areas such as physics, engineering and economics are included in order to enhance students' understanding. New to the third edition is a chapter on the 'Highlights of calculus', which accompanies the popular video lectures by the author on MIT's OpenCourseWare. These can be accessed from

math.mit.edu/~gs.

QUICK CALCULUS

A SELF-TEACHING GUIDE

John Wiley & Sons Quick Calculus 2nd Edition A Self-Teaching Guide Calculus is essential for understanding subjects ranging from physics and chemistry to economics and ecology. Nevertheless, countless students and others who need quantitative skills limit their futures by avoiding this subject like the plague. Maybe that's why the first edition of this self-teaching guide sold over 250,000 copies. Quick Calculus, Second Edition continues to teach the elementary techniques of differential and integral calculus quickly and painlessly. Your "calculus anxiety" will rapidly disappear as you work at your own pace on a series of carefully selected work problems. Each correct answer to a work problem leads to new material, while an incorrect response is followed by additional explanations and reviews. This updated edition incorporates the use of calculators and features more applications and examples. ".makes it possible for a person to delve into the mystery of calculus without being mystified." --Physics Teacher

GLOBAL CALCULUS

American Mathematical Soc. The power that analysis, topology and algebra bring to geometry has revolutionised the way geometers and physicists look at conceptual problems. Some of the key ingredients in this interplay are sheaves, cohomology, Lie groups, connections and differential operators. In Global Calculus, the appropriate formalism for these topics is laid out with numerous examples and applications by one of the experts in differential and algebraic geometry. Ramanan has chosen an uncommon but natural path through the subject. In this almost completely self-contained account, these topics are developed from scratch. The basics of Fourier transforms, Sobolev theory and interior regularity are proved at the same time as symbol calculus, culminating in beautiful results in global analysis, real and complex. Many new perspectives on traditional and modern questions of differential analysis and geometry are the hallmarks of the book. The book is suitable for a first year graduate course on Global Analysis.

PEER-LED TEAM LEARNING: EVALUATION, DISSEMINATION, AND INSTITUTIONALIZATION OF A COLLEGE LEVEL

INITIATIVE

Springer Science & Business Media There seems to be no end to the flood of conferences, workshops, panel discussions, reports and research studies calling for change in the introductory science courses in our colleges and universities. But, there comes a time to move from criticism to action. In 1993, the Division of Undergraduate Education of the National Science Foundation called for proposals for systemic initiatives to change the way int- ductory chemistry is taught. One of the five awards was to design, develop and implement the peer-led Workshop, a new structure to help students learn science. This book is a study of 15 years of work by the Peer-Led Team Learning (PLTL) project, a national consortium of faculty, learning specialists and students. The authors have been in the thick of the action as project evaluator (Gafney) and co-principle investigator (Varma-Nelson). Readers of this book will find a story of successful change in educational practice, a story that continues today as new institutions, faculty, and disciplines adopt the PLTL model. They will learn the model in theory and in practice and the supporting data that encourage others to adopt and adapt PLTL to new sit- tions. Although the project has long since lost count of the number of implem- tations of the model, conservative estimates are that more than 100 community and four year colleges and a range of universities have adopted the PLTL model to advance student learning for more than 20,000 students in a variety of STEM disciplines.

DARE TO UNDERSTAND AND MEASURE (DATUM)

A LITERATURE REVIEW OF MONITORING AND EVALUATION (M&E) FRAMEWORKS FOR CLIMATE-SMART AGRICULTURE

Food & Agriculture Org. The main objective of this report is to review the monitoring and evaluation (M&E) frameworks, tools and guidance documents that are available for climate-smart agriculture (CSA), and in particular for objective ("pillar") two on adaptation and resilience. The report is a literature review and does not propose a new methodology. It is not an exhaustive list, but summarises the main M&E frameworks. This report represents the first step towards the development of operational guidelines for the design and implementation of national M&E frameworks for CSA, to be developed during the first quarter of 2019. The envisioned operational guidelines will address the core constraints and needs of Member States on both the design and implementation of an M&E system that can simultaneously address CSA and sector reporting requirements for the 2030 Agenda climate instruments.

These guidelines will address the principal need expressed by Member States that M&E systems and indicators should be simple and not onerous. The intended users are practitioners designing CSA projects at country level and policy-makers coordinating national-sector monitoring and reporting efforts on climate change under the following three global agreements: the United Nations 2030 Agenda for Sustainable Development, the Sendai Framework for Disaster Risk Reduction, and the United Nations Framework Convention on Climate Change (UNFCCC) Paris Agreement of 2015.

PRECALCULUS

A SELF-TEACHING GUIDE

Wiley The fastest, easiest way to master precalculus . . . by doing it! Do logarithmic functions throw you for a loop? Does the challenge of finding an inverse function leave you overwhelmed? Does the Law of Cosines make you feel clueless? With this helpful, easy-to-follow guide, you will gain total command of these precalc concepts-and many more-in no time at all. Precalculus: A Self-Teaching Guide includes an algebra review and complete coverage of exponential functions, log functions, and trigonometry. Whether you are studying precalculus for the first time, want to refresh your memory, or need a little help for a course, this clear, interactive primer will provide you with the skills you need. Precalculus offers a proven self-teaching approach that lets you work at your own pace-and the frequent self-tests and exercises reinforce what you've learned. Turn to this one-of-a-kind teaching tool and, before you know it, you'll be solving problems like a mathematician!

GET SLIGHTLY FAMOUS

AND BRING IN MORE BUSINESS WITH LESS EFFORT

Bay Tree Pub Shows how any business owner can break out of the sea of competing look-alikes to become slightly famous.

TENSOR CALCULUS AND ANALYTICAL DYNAMICS

CRC Press Tensor Calculus and Analytical Dynamics provides a concise, comprehensive, and readable introduction to classical tensor calculus - in both holonomic and nonholonomic coordinates - as well as to its principal applications to the Lagrangean dynamics of discrete systems under positional or velocity constraints. The thrust of the book focuses

on formal structure and basic geometrical/physical ideas underlying most general equations of motion of mechanical systems under linear velocity constraints. Written for the theoretically minded engineer, Tensor Calculus and Analytical Dynamics contains uniquely accessbile treatments of such intricate topics as: tensor calculus in nonholonomic variables Pfaffian nonholonomic constraints related integrability theory of Frobenius The book enables readers to move quickly and confidently in any particular geometry-based area of theoretical or applied mechanics in either classical or modern form.

MULTINATIONAL ENTERPRISE MANAGEMENT STRATEGIES IN DEVELOPING COUNTRIES

IGI Global In contemporary economies, businesses must consistently make strides to remain competitive and profitable at both national and international levels. Unlike in the developed world, corporations in developing nations face a different set of challenges for achieving growth. Multinational Enterprise Management Strategies in Developing Countries is an authoritative reference source for the latest scholarly research on diverse opportunities and obstacles facing multinational corporations in emerging economies. Highlighting innovative perspectives and real-world examples, this book is ideally designed for researchers, practitioners, upper-level students, and industry professionals interested in management approaches for achieving success in international corporations.

QUANTITATIVE METHODS

AN INTRODUCTION FOR BUSINESS MANAGEMENT

John Wiley & Sons An accessible introduction to the essential quantitative methods for making valuable business decisions Quantitative methods-research techniques used to analyze quantitative data-enable professionals to organize and understand numbers and, in turn, to make good decisions. Quantitative Methods: An Introduction for Business Management presents the application of quantitative mathematical modeling to decision making in a business management context and emphasizes not only the role of data in drawing conclusions, but also the pitfalls of undiscerning reliance of software packages that implement standard statistical procedures. With hands-on applications and explanations that are accessible to readers at various levels, the book successfully outlines the necessary tools to make smart and successful business decisions. Progressing from beginner to more advanced material at an easy-to-follow pace, the author utilizes motivating examples throughout to aid readers interested in decision making and also provides critical remarks, intuitive traps, and counterexamples when appropriate. The book

begins with a discussion of motivations and foundations related to the topic, with introductory presentations of concepts from calculus to linear algebra. Next, the core ideas of quantitative methods are presented in chapters that explore introductory topics in probability, descriptive and inferential statistics, linear regression, and a discussion of time series that includes both classical topics and more challenging models. The author also discusses linear programming models and decision making under risk as well as less standard topics in the field such as game theory and Bayesian statistics. Finally, the book concludes with a focus on selected tools from multivariate statistics, including advanced regression models and data reduction methods such as principal component analysis, factor analysis, and cluster analysis. The book promotes the importance of an analytical approach, particularly when dealing with a complex system where multiple individuals are involved and have conflicting incentives. A related website features Microsoft Excel® workbooks and MATLAB® scripts to illustrate concepts as well as additional exercises with solutions. Quantitative Methods is an excellent book for courses on the topic at the graduate level. The book also serves as an authoritative reference and self-study guide for financial and business professionals, as well as readers looking to reinforce their analytical skills.

RESOURCES IN EDUCATION

MATH 221 FIRST SEMESTER CALCULUS

MATH 221 FIRST Semester CalculusBy Sigurd Angenent

FRACTIONAL DIFFERENTIAL EQUATIONS

AN INTRODUCTION TO FRACTIONAL DERIVATIVES, FRACTIONAL DIFFERENTIAL EQUATIONS, TO METHODS OF THEIR SOLUTION AND SOME OF THEIR APPLICATIONS

Elsevier This book is a landmark title in the continuous move from integer to non-integer in mathematics: from integer numbers to real numbers, from factorials to the gamma function, from integer-order models to models of an arbitrary order. For historical reasons, the word 'fractional' is used instead of the word 'arbitrary'. This book is written for readers who are new to the fields of fractional derivatives and fractional-order mathematical models, and feel that they need them for developing more adequate mathematical models. In this book, not only applied scientists, but also pure mathematicians will find fresh motivation for developing new methods and approaches in their fields of research.

A reader will find in this book everything necessary for the initial study and immediate application of fractional derivatives fractional differential equations, including several necessary special functions, basic theory of fractional differentiation, uniqueness and existence theorems, analytical numerical methods of solution of fractional differential equations, and many inspiring examples of applications. A unique survey of many applications of fractional calculus Presents basic theory Includes a unified presentation of selected classical results, which are important for applications Provides many examples Contains a separate chapter of fractional order control systems, which opens new perspectives in control theory The first systematic consideration of Caputo's fractional derivative in comparison with other selected approaches Includes tables of fractional derivatives, which can be used for evaluation of all considered types of fractional derivatives

TEACHING AND LEARNING OF CALCULUS

Springer This survey focuses on the main trends in the field of calculus education. Despite their variety, the findings reveal a cornerstone issue that is strongly linked to the formalism of calculus concepts and to the difficulties it generates in the learning and teaching process. As a complement to the main text, an extended bibliography with some of the most important references on this topic is included. Since the diversity of the research in the field makes it difficult to produce an exhaustive state-of-the-art summary, the authors discuss recent developments that go beyond this survey and put forward new research questions.

CALCULUS FOR BUSINESS, ECONOMICS, LIFE SCIENCES, AND SOCIAL SCIENCES

For two-semester courses in Calculus. Helps students "get the idea." Calculus for Business, Economics, Life Sciences, and Social Sciences, 14th Edition offers more built-in guidance than any other text in its field - with special emphasis on applications and prerequisite skills - and a host of student-friendly features to help students catch up or learn on their own. The text's emphasis on helping students "get the idea" is enhanced in the new edition by a design refresh, updated data and applications, and a robust MyLab(tm) Math course. Calculus for Business, Economics, Life Sciences, and Social Sciences, 14 th Edition includes Chapters 1-11 and is generally used for a 2-semester course. Calculus for Business, Economics, Life Sciences, and Social Sciences, Brief Version contains Chapters 1-8 and is designed for a one-term course in Applied Calculus. Also available with MyLab Math By combining trusted author content with digital tools and a flexible platform, MyLab Math personalizes the learning experience and improves results for each student. Note:

You are purchasing a standalone product; MyLab Math does not come packaged with this content. Students, if interested in purchasing this title with MyLab Math, ask your instructor to confirm the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MyLab Math, search for: 0134862635 / 9780134862637 Calculus for Business, Economics, Life Sciences, and Social Sciences and MyLab Math with Pearson eText -- Title-Specific Access Card Package, 14/e Package consists of: 013466857X / 9780134668574 Calculus for Business, Economics, Life Sciences, and Social Sciences 0134856791 / 9780134856797 MyLab Math with Pearson eText - Standalone Access Card - for Calculus for Business, Economics, Life Sciences, and Social Sciences

NEW DIGITAL TECHNOLOGY IN EDUCATION

CONCEPTUALIZING PROFESSIONAL LEARNING FOR EDUCATORS

Springer This book addresses the issues confronting educators in the integration of digital technologies into their teaching and their students' learning. Such issues include a skepticism of the added value of technology to educational learning outcomes, the perception of the requirement to keep up with the fast pace of technological innovation, a lack of knowledge of affordable educational digital tools and a lack of understanding of pedagogical strategies to embrace digital technologies in their teaching. This book presents theoretical perspectives of learning and teaching today's digital students with technology and propose a pragmatic and sustainable framework for teachers' professional learning to embed digital technologies into their repertoire of teaching strategies in a systematic, coherent and comfortable manner so that technology integration becomes an almost effortless pedagogy in their day-to-day teaching. The materials in this book are comprised of original and innovative contributions, including empirical data, to existing scholarship in this field. Examples of pedagogical possibilities that are both new and currently practised across a range of teaching contexts are featured.

CUNNING MACHINES

YOUR POCKET GUIDE TO THE WORLD OF ARTIFICIAL INTELLIGENCE

CRC Press There are many myths and mistakes which make the topics of artificial intelligence complex and confusing. But the truth is that the foundations of AI are not rocket science. People do not need a PhD to understand how a basic

neural network works. In fact, one does not even need computer skills to learn this. Cunning Machines: Your Pocket Guide to the World of Artificial Intelligence explains the main concepts: what does AI really mean, where do we find it, how do scientists try to evaluate it, what are its main limitations and what future we can expect with it? It also describes the most popular AI techniques in an easy-to-digest form: Artificial neural networks Genetic algorithms The Monte Carlo method Natural language processing Ontologies and their applications This book is for everyone. Still, it may be especially valuable to teachers who wish to enrich their classes with some interesting and popular topics, sales managers and business analysts who wish to better understand the IT world, and finally politicians and journalists who take part in debates on the latest technologies. Jędrzej Osiński earned a PhD in artificial intelligence, has worked on government grants and has published 14 scientific papers to date. He is also the co-author of two books. At the same time, he has over ten years of experience working in IT companies of different sizes, domains (the web, telecoms, banking, e-learning), organisation structures and locations (Poland, Ireland and the UK). He is also involved in various initiatives promoting AI, science and modern technologies including blog posts, invited talks and TV and radio appearances

CATALOG OF COPYRIGHT ENTRIES. THIRD SERIES

1972: TITLE INDEX

Copyright Office, Library of Congress

CINCINNATI MAGAZINE

Cincinnati Magazine taps into the DNA of the city, exploring shopping, dining, living, and culture and giving readers a ringside seat on the issues shaping the region.

BUSINESS ENTERPRISE, PROCESS, AND TECHNOLOGY MANAGEMENT: MODELS AND APPLICATIONS

MODELS AND APPLICATIONS

IGI Global "This book generates a comprehensive overview of the recent advances in concepts, technologies, and applications that enable advanced business process management in various enterprises"--Provided by publisher.

THE CALCULUS LIFESAVER

ALL THE TOOLS YOU NEED TO EXCEL AT CALCULUS

Princeton University Press For many students, calculus can be the most mystifying and frustrating course they will ever take. Based upon Adrian Banner's popular calculus review course at Princeton University, this book provides students with the essential tools they need not only to learn calculus, but also to excel at it.

APPLIED CALCULUS FOR BUSINESS, ECONOMICS, AND THE SOCIAL AND LIFE SCIENCES, EXPANDED EDITION

McGraw-Hill Education Applied Calculus for Business, Economics, and the Social and Life Sciences, Expanded Edition provides a sound, intuitive understanding of the basic concepts students need as they pursue careers in business, economics, and the life and social sciences. Students achieve success using this text as a result of the author's applied and real-world orientation to concepts, problem-solving approach, straight forward and concise writing style, and comprehensive exercise sets. More than 100,000 students worldwide have studied from this text!

INTELLIGENT BUSINESS PROCESS OPTIMIZATION FOR THE SERVICE INDUSTRY

KIT Scientific Publishing The company's sustainable competitive advantage derives from its capacity to create value for customers and to adapt the operational practices to changing situations. Business processes are the heart of each company. Therefore process excellence has become a key issue. This book introduces a novel approach focusing on the autonomous optimization of business processes by applying sophisticated machine learning techniques such as Relational Reinforcement Learning and Particle Swarm Optimization.

HOW TO ACE CALCULUS

THE STREETWISE GUIDE

Times Books Written by three gifted-and funny-teachers, How to Ace Calculus provides humorous and readable explanations of the key topics of calculus without the technical details and fine print that would be found in a more formal text. Capturing the tone of students exchanging ideas among themselves, this unique guide also explains how calculus is taught, how to get the best teachers, what to study, and what is likely to be on exams-all the tricks of the

trade that will make learning the material of first-semester calculus a piece of cake. Funny, irreverent, and flexible, How to Ace Calculus shows why learning calculus can be not only a mind-expanding experience but also fantastic fun.

ECONOMICS WITH CALCULUS

World Scientific This textbook provides a calculus-based introduction to economics. Students blessed with a working knowledge of the calculus would find that this text facilitates their study of the basic analytical framework of economics. The textbook examines a wide range of micro and macro topics, including prices and markets, equity versus efficiency, Rawls versus Bentham, accounting and the theory of the firm, optimal lot size and just in time, monopoly and competition, exchange rates and the balance of payments, inflation and unemployment, fiscal and monetary policy, IS-LM analysis, aggregate demand and supply, speculation and rational expectations, growth and development, exhaustiable resources and over-fishing. While the content is similar to that of conventional introductory economics textbook, the assumption that the reader knows and enjoys the calculus distinguishes this book from the traditional text.

HANDBOOK OF OBESITY PREVENTION

A RESOURCE FOR HEALTH PROFESSIONALS

Springer Science & Business Media Comprehensive in scope and meticulously researched, Handbook of Obesity Prevention analyzes the intricate causes of this public health crisis, and sets out concrete, multilevel strategies for meeting it head-on. This innovative handbook clearly defines obesity in clinical, epidemiologic, and financial terms, and offers guidelines for planning and implementing programs and evaluating results. This systematic approach to large-scale social and policy change gives all parties involved—from individual practitioners to multinational corporations—the tools to set and attain realistic goals based on solid evidence and best practice in public health. A sample of topics covered: The individual: risk factors and prevention across the lifespan, specific populations (pregnant women, ethnic and regional groups). Levers for change in schools and workplaces. Community settings: role of the physical environment. "De-marketing" obesity: food industries and the media. Grassroots action: consumers and communities. The global obesity epidemic: rapid developments, potential solutions. From obesity prevention to health promotion: the future of the field. Its level of detail and wide range of topics make the Handbook of Obesity Prevention a bedrock sourcebook, overview, reference, or teaching text. Read by topic or cover to cover, here is accurate, up-to-

date information for professionals and students in all areas of public health.

SCHAUM'S OUTLINE OF LINEAR ALGEBRA

McGraw Hill Professional This third edition of the successful outline in linear algebra--which sold more than 400,000 copies in its past two editions--has been thoroughly updated to increase its applicability to the fields in which linear algebra is now essential: computer science, engineering, mathematics, physics, and quantitative analysis. Revised coverage includes new problems relevant to computer science and a revised chapter on linear equations.

VECTOR ALGEBRA AND CALCULUS

Atlantic Publishers & Dist The Present Book Aims At Providing A Detailed Account Of The Basic Concepts Of Vectors That Are Needed To Build A Strong Foundation For A Student Pursuing Career In Mathematics. These Concepts Include Addition And Multiplication Of Vectors By Scalars, Centroid, Vector Equations Of A Line And A Plane And Their Application In Geometry And Mechanics, Scalar And Vector Product Of Two Vectors, Differential And Integration Of Vectors, Differential Operators, Line Integrals, And Gauss S And Stoke S Theorems.It Is Primarily Designed For B.Sc And B.A. Courses, Elucidating All The Fundamental Concepts In A Manner That Leaves No Scope For Illusion Or Confusion. The Numerous High-Graded Solved Examples Provided In The Book Have Been Mainly Taken From The Authoritative Textbooks And Question Papers Of Various University And Competitive Examinations Which Will Facilitate Easy Understanding Of The Various Skills Necessary In Solving The Problems. In Addition, These Examples Will Acquaint The Readers With The Type Of Questions Usually Set At The Examinations. Furthermore, Practice Exercises Of Multiple Varieties Have Also Been Given, Believing That They Will Help In Quick Revision And In Gaining Confidence In The Understanding Of The Subject. Answers To These Questions Have Been Verified Thoroughly. It Is Hoped That A Thorough Study Of This Book Would Enable The Students Of Mathematics To Secure High Marks In The Examinations. Besides Students, The Teachers Of The Subject Would Also Find It Useful In Elucidating Concepts To The Students By Following A Number Of Possible Tracks Suggested In The Book.

ROBOT MEMETICS

A SPACE EXPLORATION PERSPECTIVE

Springer Nature This book provides a novel perspective on the concept of memetics as applied to the development and evolution of intelligent robots and robotic communities/cultures. It provides a framework for the emergence of a hybrid community of people and intelligent robots collaborating to realize mutual benefits and scientific objectives. It aims to show that as the hybrid community emerges, so does its culture. Once this foundational work is done, the book illustrates the robot memetic ideas in the context of a space exploration scenario based on the development and operation of a human/robot settlement on Mars.

COMPETITION SCIENCE VISION

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

ENVIRONMENTAL MANAGEMENT ACCOUNTING FOR CLEANER PRODUCTION

Springer Science & Business Media Sustainability requires companies to develop in an economically, environmentally and socially sustainable manner. Corporate sustainable development in turn requires movement towards cleaner production. In order to recognize the potential from cleaner production – reduced costs and fewer environmental impacts through the reduced use of materials – environmental management accounting (EMA) is a necessary information management tool. Environmental Management Accounting for Cleaner Production reveals a set of tools for companies to collect, evaluate and interpret the information they need to estimate their potential to use cleaner production to realize cost savings and to make the best decisions about the available cleaner production options. EMA is therefore the key for driving environmental progress, cost savings, increased competitiveness and corporate sustainability through the means of cleaner production.

CALCULUS MADE EASY

BEING A VERY-SIMPLEST INTRODUCTION TO THOSE BEAUTIFUL METHODS OF RECKONING WHICH ARE GENERALLY CALLED BY THE TERRIFYING NAMES OF THE DIFFERENTIAL CALCULUS AND THE INTEGRAL CALCULUS

Saint Martin's Griffin "Calculus Made Easy" has long been the most popular calculus primer, and this major revision of the classic math text makes the subject at hand still more comprehensible to readers of all levels. With a new introduction, three new chapters, modernized language and methods throughout, and an appendix of challenging and enjoyable practice problems, "Calculus Made Easy" has been thoroughly updated for the modern reader.