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Introduction to Integral Calculus: Systematic Studies with Engineering Applications for Beginners

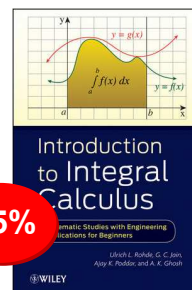
Rohde, Ulrich L

Wiley - ISBN 9781118117767

Hardback - pagg. 432 - data di pubbl.02/02/12

Prezzo di copertina Lst 76,95 equivalenti a Euro 92

Prezzo speciale Licosa: Euro 78



This book explores the integral calculus and its plentiful applications in engineering and the physical sciences. The authors aim to develop a basic understanding of integral calculus combined with scientific problems, and throughout, the book details the numerous applications of calculus as well as presents the topic as a deep, rich, intellectual achievement. The needed fundamental information is presented in addition to plentiful references, exercises, and examples. The definition of an integral is motivated by the familiar notion of area. Although the methods of plane geometry allow for the areas of polygons to be calculated, they do not provide ways of finding the area of plane regions whose boundaries are curves other than circles

Introduction to Abstract Algebra, 4th Edition

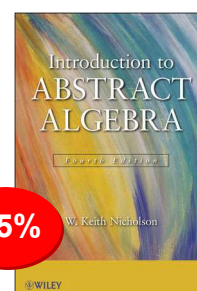
Nicholson W.K.

Wiley - ISBN 9781118135358

Hardback - pagg. 560 - data di pubbl.01/04/12

Prezzo di copertina Lst 86,95 equivalenti a Euro 104

Prezzo speciale Licosa: Euro 88



This Fourth Edition of Introduction to Abstract Algebra is a self-contained introduction to the basic structures of abstract algebra: groups, rings, and fields. This book is intended for a one or two semester abstract algebra course. The writing style is appealing to students, and great effort has been made to motivate and be very clear about how the topics and applications relate to one another. Over 500 solved examples are included to aid reader comprehension as well as to demonstrate how results in the theory are obtained. Many applications (particularly to coding theory, cryptography, and to combinatorics) are provided to illustrate how the abstract structures relate to real-world problems. In addition, historical notes and biographies of mathematicians put the subject into perspective.

Dynamical Systems Method and Applications: Theoretical Developments and Numerical Examples

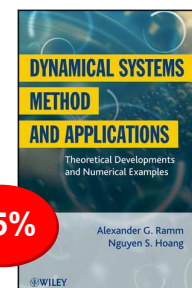
Ramm A.G.

Wiley - ISBN 9781118024287

Hardback - pagg. 576 - data di pubbl.27/01/12

Prezzo di copertina Lst 90 equivalenti a Euro 108

Prezzo speciale Licosa: Euro 92



Dynamical Systems Method (DSM) is a powerful general method for solving operator equations. These equations can be linear or nonlinear, well-posed or ill-posed. The book presents a systematic development of the DSM, and theoretical results are illustrated by a number of numerical examples, which are of independent interest. These include: stable differentiation of noisy data, stable solution of ill-conditioned linear algebraic systems, stable solution of Fredholm and Volterra integral equations of the first kind, stable inversion of the Laplace transform from the real axis, solution of nonlinear integral equations, and other examples

Galois Theory, 2nd Edition

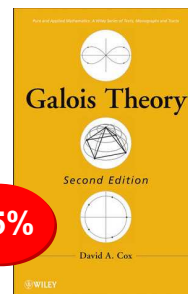
Cox D.A.

Wiley - ISBN 9781118072059

Hardback - pagg. 602 - data di pubbl.01/04/12

Prezzo di copertina Lst 50,50 equivalenti a Euro 60

Prezzo speciale Licosa: Euro 51



This book brings one of the most colorful and influential theories in algebra to life for professional algebraists and students alike. The Second Edition features new exercises and an updated bibliography. A new discussion provides a different method for computing the Galois group of a quartic polynomial. Chapter coverage includes: cubic equations; symmetric polynomials; roots of polynomials; extension fields; normal and separable extensions; the Galois group; the Galois correspondence; solvability by radical; cyclotomic extensions; geometric constructions; finite field; computing Galois groups; solvable permutation groups; the Lemniscate; and an introduction to abstract algebra

Adaptive Tests of Significance Using Permutations of Residuals with R and SAS

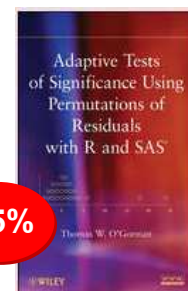
O'Gorman, Thomas W

Wiley - ISBN 9780470922255

Hardback - pagg. 364 - data di pubbl.23/03/12

Prezzo di copertina Lst 83,50 equivalenti a Euro 100

Prezzo speciale Licosa: Euro 85



This book concerns adaptive tests of significance, which are statistical tests that use the data to modify the test procedures. The modification is used to reduce the influence of outliers. These adaptive tests are attractive because they are often more powerful than traditional tests, and they are also quite practical since they can be performed quickly on a computer using R code or a SAS macro

Applications of Combinatorial Matrix Theory to Laplacian Matrices of Graphs

Series: *Discrete Mathematics and Its Applications*

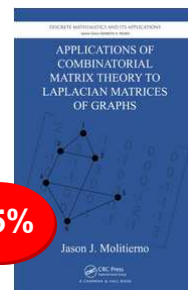
Molitierno J.J.

CRC Press - ISBN 9781439863374

Hardback - pagg. 425 - data di pubbl.25/01/12

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Prezzo speciale Licosa: Euro 59



Matrix-graph theory is a fascinating subject that ties together two seemingly unrelated branches of mathematics. Because it makes use of both the combinatorial properties and the numerical properties of a matrix, this area of mathematics is fertile ground for research at the undergraduate, graduate, and professional levels. This book can serve as exploratory literature for the undergraduate student who is just learning how to do mathematical research, a useful "start-up" book for the graduate student beginning research in matrix-graph theory, and a convenient reference for the more experienced researcher

Mathematical Foundations for Signal Processing, Communications, and Networking

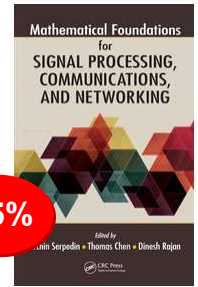
Serpedin E.

CRC PRESS - ISBN 9781439855133

Hardback - pagg. 857 - data di pubbl.21/12/11

Prezzo di copertina Lst 89 equivalenti a Euro 106

Prezzo speciale Licosa: Euro 90



From basic transforms to Monte Carlo simulation to linear programming, the text covers a broad range of mathematical techniques essential to understanding the concepts and results in signal processing, telecommunications, and networking. Along with discussing mathematical theory, each self-contained chapter presents examples that illustrate the use of various mathematical concepts to solve different applications. Each chapter also includes a set of homework exercises and pointers to further readings for additional topics and applications

Finite Ordered Sets - Concepts, Results and Uses

Series: Encyclopedia of Mathematics and its Applications

Caspard, Nathalie

CAMBRIDGE UNIVERSITY PRESS - ISBN 9781107013698

Hardback - pagg. 360 - data di pubbl.31/01/12

Prezzo di copertina Lst 55 equivalenti a Euro 66

Prezzo speciale Licosa: Euro 56



Ordered sets are ubiquitous in mathematics and have significant applications in computer science, statistics, biology and the social sciences. As the first book to deal exclusively with finite ordered sets, this book will be welcomed by graduate students and researchers in all of these areas. Beginning with definitions of key concepts and fundamental results (Dilworth's and Sperner's theorem, interval and semiorders, Galois connection, duality with distributive lattices, coding and dimension theory), the authors then present applications of these structures in fields such as preference modelling and aggregation, operational research and management, cluster and concept analysis, and data mining

Data Analysis and Data Mining - An Introduction

Azzalini A.

OXFORD UNIVERSITY PRESS - ISBN 9780199767106

Hardback - pagg. 264 - data di pubbl.01/04/12

Prezzo di copertina Lst 50 equivalenti a Euro 60

Prezzo speciale Licosa: Euro 51



This book presents key statistical concepts by way of case studies, giving readers the benefit of learning from real problems and real data. Aided by a diverse range of statistical methods and techniques, readers will move from simple problems to complex problems. Through these case studies, authors Adelchi Azzalini and Bruno Scarpa explain exactly how statistical methods work; rather than relying on the "push the button" philosophy, they demonstrate how to use statistical tools to find the best solution to any given problem

Finitely Generated Abelian Groups and Similarity of Matrices Over a Field

Springer Undergraduate Mathematics Series

Norman, C.

SPRINGER VERLAG - ISBN 9781447127291

PAPERBACK - pagg. 393 - data di pubbl.29/02/12

Prezzo di copertina Euro 36,35

Prezzo speciale Licosa: Euro 31



At first sight, finitely generated abelian groups and canonical forms of matrices appear to have little in common. However, reduction to Smith normal form, named after its originator H.J.S. Smith in 1861, is a matrix version of the Euclidean algorithm and is exactly what the theory requires in both cases. Starting with matrices over the integers, Part 1 of this book provides a measured introduction to the decomposition of such groups: two finitely generated abelian groups are isomorphic if and only if their invariant factor sequences are identical. The analogous theory of matrix similarity over a field is then developed in Part 2 starting with matrices having polynomial entries: two matrices over a field are similar if and only if their rational canonical forms are equal. Under certain conditions each matrix is similar to a simpler matrix with only few non-vanishing entries: the Jordan form

Linear Algebra and Linear Models 3/e

Collana: Universitext

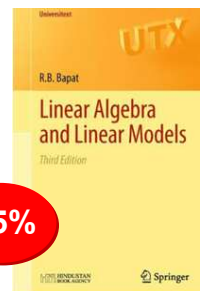
Bapat, R.B

SPRINGER VERLAG - ISBN 9781447127383

PAPERBACK - pagg. 175 - data di pubbl.30/03/12

Prezzo di copertina Euro 41,55

Prezzo speciale Licosa: Euro 36



Linear Algebra and Linear Models comprises a concise and rigorous introduction to linear algebra required for statistics followed by the basic aspects of the theory of linear estimation and hypothesis testing. The emphasis is on the approach using generalized inverses. Topics such as the multivariate normal distribution and distribution of quadratic forms are included. For this third edition, the material has been reorganised to develop the linear algebra in the first six chapters, to serve as a first course on linear algebra that is especially suitable for students of statistics or for those looking for a matrix theoretic approach to the subject. Other key features include: coverage of topics such as rank additivity, inequalities for eigenvalues and singular values; a new chapter on linear mixed models; over seventy additional problems on rank: the matrix rank is an important and rich topic with connections to many aspects of linear algebra such as generalized inverses, idempotent matrices and partitioned matrices

Interfacial Convection in Multilayer Systems - 2/e

Collana: Applied Mathematical Sciences

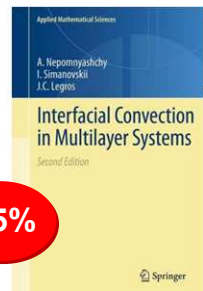
Nepomnyashchy, A

SPRINGER VERLAG - ISBN 9780387877136

HARDBACK - pag. 498 - data di pubbl.28/03/12

Prezzo di copertina Euro 77,95

Prezzo speciale Licosa: Euro 66



This book gives a systematic investigation of convection in systems comprised of liquid layers with deformable interfaces. This new edition includes completely updated and new material on flows in ultra thin films and brings up to date no fair progress made in the technology on micro and nano scales. Also, this revised edition will reflect progress into dynamics of complex fluids

CGAL Arrangements and Their Applications - A Step-by-Step Guide

Series: *Geometry and Computing*

Fogel, Efi

SPRINGER VERLAG - ISBN 9783642172823

Hardback - pagg. 293 - data di pubbl.15/01/12

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Arrangements of curves constitute fundamental structures that have been intensively studied in computational geometry. Arrangements have numerous applications in a wide range of areas -- examples include geographic information systems, robot motion planning, statistics, computer-assisted surgery and molecular biology. Implementing robust algorithms for arrangements is a notoriously difficult task, and the CGAL arrangements package is the first robust, comprehensive, generic and efficient implementation of data structures and algorithms for arrangements of curves. This book is about how to use CGAL two-dimensional arrangements to solve problems. The authors first demonstrate the features of the arrangement package and related packages using small example programs

Topological Methods in Data Analysis and Visualization II - Theory, Algorithms, and Applications

Series: *Mathematics and Visualization*

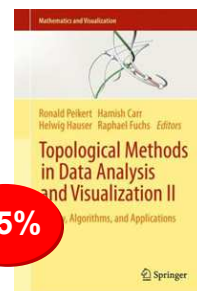
Peikert, R.

SPRINGER VERLAG - ISBN 9783642231742

Hardback - pagg. 299 - data di pubbl.15/01/12

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When scientists analyze datasets in a search for underlying phenomena, patterns or causal factors, their first step is often an automatic or semi-automatic search for structures in the data. Of these feature-extraction methods, topological ones stand out due to their solid mathematical foundation. Topologically defined structures--as found in scalar, vector and tensor fields--have proven their merit in a wide range of scientific domains, and scientists have found them to be revealing in subjects such as physics, engineering, and medicine

Algebraic and Stochastic Coding Theory

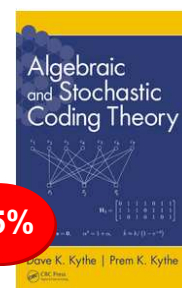
Kythe D.K.

CRC PRESS - ISBN 9781439881811

Hardback - pagg. 512 - data di pubbl.08/03/12

Prezzo di copertina Lst 57,99 equivalenti a Euro 69

Prezzo speciale Licosa: Euro 59



Written for advanced readers, this book examines recent theoretical developments in coding theory. It covers technical topics and includes numerous examples to explain the underlying principles in coding theory. The text proves and illustrates the results with examples that detail that construction of the codes. The authors provide a clear, detailed description of each code and discuss its applications as well as advantages and disadvantages. In addition, they present historical developments and simplify mathematical theory, including exercises in most chapters of the text. Topics covered include belief propagation, distributions, Hamming, Golay, BCH, Reed-Solomon, and LDPC codes to the modern family of Fountain codes including the Raptor codes

Elements of Advanced Mathematics - 3le

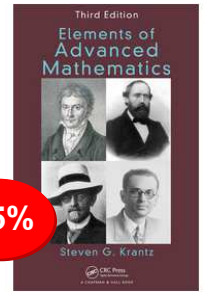
Krantz S.G.

CRC PRESS - ISBN 9781439898345

Handback - pagg. 367 - data di pubbl.23/03/12

Prezzo di copertina Lst 44,99 equivalenti a Euro 54

Prezzo speciale Licosa: Euro 46



This third edition adds four new chapters on point-set topology, theoretical computer science, the P/NP problem, and zero-knowledge proofs and RSA encryption. The topology chapter builds on the existing real analysis material. The computer science chapters connect basic set theory and logic with current hot topics in the technology sector. Presenting ideas at the cutting edge of modern cryptography and security analysis, the cryptography chapter shows students how mathematics is used in the real world and gives them the impetus for further exploration. This edition also includes more exercises sets in each chapter, expanded treatment of proofs, and new proof techniques

The Nuts and Bolts of Proofs - An Introduction to Mathematical Proofs - 4le

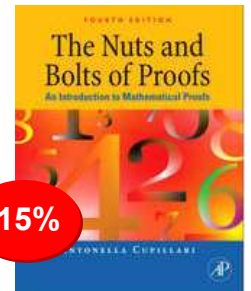
Cupillari, A.

ACADEMIC PRESS - ISBN 9780123822178

PAPERBACK - pagg.296 - data di pubbl.17/02/12

Prezzo di copertina Lst 30,99 equivalenti a Euro 37

Prezzo speciale Licosa: Euro 31



"The Nuts and Bolts of Proofs" instructs students on the primary basic logic of mathematical proofs, showing how proofs of mathematical statements work. The text provides basic core techniques of how to read and write proofs through examples. The basic mechanics of proofs are provided for a methodical approach in gaining an understanding of the fundamentals to help students reach different results. A variety of fundamental proofs demonstrate the basic steps in the construction of a proof and numerous examples illustrate the method and detail necessary to prove various kinds of theorems

Practical Text Mining and Statistical Analysis for Non-structured Text Data Applications

Miner, G.

ACADELIC PRESS - ISBN 9780123869791

Hardback - pagg. 1000 - data di pubbl.26/02/12

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The world contains an unimaginably vast amount of digital information which is getting ever vaster ever more rapidly. This makes it possible to do many things that previously could not be done: spot business trends, prevent diseases, combat crime and so on. Managed well, the textual data can be used to unlock new sources of economic value, provide fresh insights into science and hold governments to account. As the Internet expands and our natural capacity to process the unstructured text that it contains diminishes, the value of text mining for information retrieval and search will increase dramatically

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