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covering the main fields of mathematics this handbook focuses on the methods used

for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology the authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations the book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

this textbook is for those who want to learn linear algebra from the basics after a brief mathematical introduction it provides the standard curriculum of linear algebra based on an abstract linear space it covers among other aspects linear mappings and their matrix representations basis and dimension matrix invariants inner products and norms eigenvalues and eigenvectors and jordan normal forms detailed and self contained proofs as well as descriptions are given for all theorems formulas and algorithms a unified overview of linear structures is presented by developing linear algebra from the perspective of functional analysis advanced topics such as function space are taken up along with fourier analysis the perron frobenius theorem linear differential equations the state transition matrix and the generalized inverse matrix singular value decomposition tensor products and linear regression models these all provide a bridge to more specialized theories based on linear algebra in mathematics physics engineering economics and social sciences python is used throughout the book to explain linear algebra learning with python interactively readers will naturally become accustomed to python coding by using python s libraries numpy matplotlib vpython and sympy readers can easily perform large scale matrix calculations visualization of calculation results and symbolic computations all the codes in this book can be executed on both windows and macos and also on raspberry pi

lecture notes for linear algebra provides instructors with a detailed lecture by lecture outline for a basic linear algebra course the ideas and examples presented in this e book are based on strang s video lectures for mathematics 18 06 and 18 065 available on mit s opencourseware ocw mit edu and youtube youtube com mitocw readers will quickly gain a picture of the whole course the structure of the subject the key topics in a natural order and the connecting ideas that make linear algebra so beautiful

the notion of a quantum group was introduced by v g drinfel d and m jimbo independently in their study of the quantum yang baxter equation arising from 2 dimensional solvable lattice models quantum groups are certain families of hopf algebras that are deformations of universal enveloping algebras of kac moody algebras

and over the past 20 years they have turned out to be the fundamental algebraic structure behind many branches of mathematics and mathematical physics such as solvable lattice models in statistical mechanics topological invariant theory of links and knots representation theory of kac moody algebras representation theory of algebraic structures topological quantum field theory geometric representation theory and c algebras in particular the theory of crystal bases or canonical bases developed independently by m kashiwara and g lusztig provides a powerful combinatorial and geometric tool to study the representations of quantum groups the purpose of this book is to provide an elementary introduction to the theory of quantum groups and crystal bases focusing on the combinatorial aspects of the theory

this book presents modern algebra from first principles and is accessible to undergraduates or graduates it combines standard materials and necessary algebraic manipulations with general concepts that clarify meaning and importance this conceptual approach to algebra starts with a description of algebraic structures by means of axioms chosen to suit the examples for instance axioms for groups rings fields lattices and vector spaces this axiomatic approach emphasized by hilbert and developed in germany by noether artin van der waerden et al in the 1920s was popularized for the graduate level in the 1940s and 1950s to some degree by the authors publication of a survey of modern algebra the present book presents the developments from that time to the first printing of this book this third edition includes corrections made by the authors

upon publication the first edition of the crconcise encyclopedia of mathematics received overwhelming accolades for its unparalleled scope readability and utility it soon took its place among the top selling books in the history of chapman hall crc and its popularity continues unabated yet also unabated has been the d

this textbook provides an easy to understand introduction to the mathematical concepts and algorithms at the foundation of data science it covers essential parts of data organization descriptive and inferential statistics probability theory and machine learning these topics are presented in a clear and mathematical sound way to help readers gain a deep and fundamental understanding numerous application examples based on real data are included the book is well suited for lecturers and students at technical universities and offers a good introduction and overview for people who are new to the subject basic mathematical knowledge of calculus and linear algebra is required

combining a concrete perspective with an exploration based approach exploratory

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