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A Concise Introduction to Pure Mathematics 2018-09-03 accessible to all students with a sound background in high school mathematics a concise introduction to pure mathematics fourth edition presents some of the most fundamental and beautiful ideas in pure mathematics it covers not only standard material but also many interesting topics not usually encountered at this level such as the theory of solving cubic equations euler s formula for the numbers of corners edges and faces of a solid object and the five platonic solids the use of prime numbers to encode and decode secret information the theory of how to compare the sizes of two infinite sets and the rigorous theory of limits and continuous functions new to the fourth edition two new chapters that serve as an introduction to abstract algebra via the theory of groups covering abstract reasoning as well as many examples and applications new material on inequalities counting methods the inclusion exclusion principle and euler s phi function numerous new exercises with solutions to the odd numbered ones through careful explanations and examples this popular textbook illustrates the power and beauty of basic mathematical concepts in number theory discrete mathematics analysis and abstract algebra written in a rigorous yet accessible style it continues to provide a robust bridge between high school and higher level mathematics enabling students to study more advanced courses in abstract algebra and analysis

A Concise Introduction to Logic 2014-01-01 unsurpassed for its clarity and comprehensiveness hurley s a concise introduction to logic is the 1 introductory logic textbook on the market in this twelfth edition hurley continues to build upon the tradition of a lucid focused and accessible presentation of the basic subject matter of logic both formal and informal the edition s new previews connect a section s content to real life scenarios pertinent to students lives using everyday examples to translate new notions and terms into concepts that readers unfamiliar with the subject matter can relate to hurley s extensive carefully sequenced exercises guide students toward greater proficiency with the skills they are learning important notice media content referenced within the product description or the product text may not be available in the ebook version

A Concise Introduction to Analysis 2015-10-31 this book provides an introduction to the basic ideas and tools used in mathematical analysis it is a hybrid cross between an advanced calculus and a more advanced analysis text and covers topics in both real and complex variables considerable space is given to developing riemann integration theory in higher dimensions including a rigorous treatment of fubini s theorem polar coordinates and the divergence theorem these are used in the final chapter to derive cauchy s formula which is then applied to prove some of the basic properties of analytic functions among the unusual features of this book is the treatment of analytic function theory as an application of ideas and results in real analysis for instance cauchy s integral formula for analytic functions is derived as an application of the divergence theorem the last section of each chapter is devoted to exercises that should be viewed as an integral part of the text a concise introduction to analysis should appeal to upper level undergraduate mathematics students graduate students in fields where mathematics is used as well as to those wishing to supplement their mathematical education on their own wherever possible an attempt has been made to give interesting examples that demonstrate how the ideas are used and why it is important to have a rigorous grasp of them

A Concise Introduction to Logic 2014 unsurpassed for its clarity and comprehensiveness hurley s a concise introduction to logic is the 1 introductory logic textbook on the market in this twelfth edition hurley continues to build upon the tradition of a lucid focused and accessible presentation of the basic subject matter of logic both formal and informal the edition s new previews connect a section s content to real life scenarios pertinent to students lives using everyday examples to translate new notions and terms into concepts that readers unfamiliar with the subject matter can relate to hurley s extensive carefully sequenced exercises guide students toward greater proficiency with the skills they are learning important notice media content referenced within the product description or the product text may not be available in the ebook version

Concise Introduction to Logic 1996 building on the author s previous edition on the subject introduction to linear algebra jones bartlett 1996 this book offers a refreshingly concise text suitable for a standard course in linear algebra presenting a carefully selected array of essential topics that can be thoroughly covered in a single semester although the exposition generally falls in line with the material recommended by the linear algebra curriculum study group it notably deviates in providing an early emphasis on the geometric foundations of linear algebra this gives students a more intuitive understanding of the subject and enables an easier grasp of more abstract concepts covered later in the course the focus throughout is rooted in the mathematical fundamentals but the text also investigates a number of interesting applications including a section on computer graphics a chapter on numerical methods and many exercises and examples using matlab meanwhile many visuals and problems a complete

solutions manual is available to instructors are included to enhance and reinforce understanding throughout the book brief yet precise and rigorous this work is an ideal choice for a one semester course in linear algebra targeted primarily at math or physics majors it is a valuable tool for any professor who teaches the subject

A Concise Introduction to Logic 2017-02-06 the updated 2nd edition of this brief introduction to psychology is more accessible and ideal for short courses this is a brief accessible introductory psychology textbook the updated 2nd edition of this clear and brief introduction to psychology is written by the award winning lecturer and author richard griggs the text is written in an engaging style and presents a selection of carefully chosen core concepts in psychology providing solid topical coverage without drowning the student in a sea of details

A Concise Introduction to Linear Algebra 2012-03-30 accompanying cd rom includes demonstration software and most of the exercises from the book in interactive format

Psychology 2008-02-15 this book provides an introduction to basic topics in real analysis and makes the subject easily understandable to all learners the book is useful for those that are involved with real analysis in disciplines such as mathematics engineering technology and other physical sciences it provides a good balance while dealing with the basic and essential topics that enable the reader to learn the more advanced topics easily it includes many examples and end of chapter exercises including hints for solutions in several critical cases the book is ideal for students instructors as well as those doing research in areas requiring a basic knowledge of real analysis those more advanced in the field will also find the book useful to refresh their knowledge of the topic features includes basic and essential topics of real analysis adopts a reasonable approach to make the subject easier to learn contains many solved examples and exercise at the end of each chapter presents a quick review of the fundamentals of set theory covers the real number system discusses the basic concepts of metric spaces and complete metric spaces

A Concise Introduction to Logic 2000 while there are already several well known textbooks on mathematical logic this book is unique in treating the material in a concise and streamlined fashion this allows many important topics to be covered in a one semester course although the book is intended for use as a graduate text the first three chapters can be understood by undergraduates interested in mathematical logic the remaining chapters contain material on logic programming for computer scientists model theory recursion theory godel s incompleteness theorems and applications of mathematical logic philosophical and foundational problems of mathematics are discussed throughout the text

Concise Introduction to Basic Real Analysis 2019-08-12 a concise introduction to ethics offers a condensed and exceptionally well written introduction to the essential moral theories based on russ shafer landau s best selling primer on ethical theory the fundamentals of ethics this briefer volume retains the longer one s content advantage over competing books by addressing issues that other texts omit including the good life value theory natural law and prima facie duties it also incorporates discussion questions and case studies at the end of each chapter giving students the opportunity to apply ethical theories to real world moral problems a perfect companion to shafer landau s anthology the ethical life this volume s compact size and low price make a concise introduction to ethics an ideal complement to any course where it is important that students understand moral theories

A Concise Introduction to Mathematical Logic 2006-09-28 accessible to all students with a sound background in high school mathematics a concise introduction to pure mathematics third edition presents some of the most fundamental and beautiful ideas in pure mathematics it covers not only standard material but also many interesting topics not usually encountered at this level such as the theory of solving cubic equations the use of euler s formula to study the five platonic solids the use of prime numbers to encode and decode secret information and the theory of how to compare the sizes of two infinite sets new to the third edition the third edition of this popular text contains three new chapters that provide an introduction to mathematical analysis these new chapters introduce the ideas of limits of sequences and continuous functions as well as several interesting applications such as the use of the intermediate value theorem to prove the existence of nth roots this edition also includes solutions to all of the odd numbered exercises by carefully explaining various topics in analysis geometry number theory and combinatorics this textbook illustrates the power and beauty of basic mathematical concepts written in a rigorous yet accessible style it continues to provide a robust bridge between high school and higher level mathematics enabling students to study further courses in abstract algebra and analysis

A Concise Introduction to Ethics 2019-07-08 the emphasis of the book is on the question of why only if why an algorithm is successful is understood can it be properly applied and the results trusted algorithms are often taught side by side without showing the similarities and differences between them this book addresses the commonalities

and aims to give a thorough and in depth treatment and develop intuition while remaining concise this useful reference should be an essential on the bookshelves of anyone employing machine learning techniques

A Concise Introduction to Pure Mathematics, Third Edition 2010-08-16 designed for the analyst physicist engineer or economist provides such readers with most of the measure theory they will ever need emphasis is on the concrete aspects of the subject subjects include classical theory lebesgue s measure lebesgue integration products of measures changes of variable some basic inequalities and abstract theory annotation copyright by book news inc portland or

A Concise Introduction to Machine Learning 2019-08-01 now in its sixth edition a concise introduction to linguistics provides students with a detailed introduction to the core concepts of language as it relates to culture the textbook includes a focus on linguistic anthropology unpacking the main contributions of linguistics to the study of human communication and culture aimed at the general education student the textbook also provides anthropology linguistics and english majors with the resources needed to pursue advanced courses in this area written in an accessible manner that does not assume previous knowledge of linguistics this new edition contains expanded discussions on linguistic anthropology sociolinguistics including an expanded section on trans and nonbinary language and pragmatics the textbook incorporates a robust set of pedagogical features including marginal definitions a substantial glossary chapter summaries and learning exercises brand new to this edition are a full international phonetic alphabet chart new exercises with languages other than english and new illustrations

A Concise Introduction to the Theory of Integration 1998-12-23 a concise introduction to programming in python second edition provides a hands on and accessible introduction to writing software in python with no prior programming experience required the second edition was thoroughly reorganized and rewritten based on classroom experience to incorporate a spiral approach starting with turtle graphics and then revisiting concepts in greater depth using numeric textual and image data clear concise explanations written for beginning students emphasizing core principles a variety of accessible examples focusing on key concepts diagrams to help visualize new concepts new sections on recursion and exception handling as well as an earlier introduction of lists based on instructor feedback the text offers sections designed for approximately one class period each and proceeds gradually from procedural to object oriented design examples exercises and projects are included from diverse application domains including finance biology image processing and textual analysis it also includes a brief how to sections that introduce optional topics students may be interested in exploring the text is written to be read making it a good fit in flipped classrooms designed for either classroom use or self study all example programs and solutions to odd numbered exercises except for projects are available at central edu go conciseintro

A Concise Introduction to Linguistics 2022-12-30 a concise introduction to pure mathematics second edition provides a robust bridge between high school and university mathematics expanding upon basic topics in ways that will interest first year students in mathematics and related fields and stimulate further study divided into 22 short chapters this textbook offers a selection of exercises ranging from routine calculations to quite challenging problems the author discusses real and complex numbers and explains how these concepts are applied in solving natural problems he introduces topics in analysis geometry number theory and combinatorics what s new in the second edition contains extra material concerning prime numbers forming the basis for data encryption explores secret codes one of today s most spectacular applications of pure mathematics discusses permutations and their importance in many topics in discrete mathematics the textbook allows for the design of courses with various points of emphasis because it can be divided into four fairly independent sections related to an introduction to number systems and analysis theory of the integers an introduction to discrete mathematics and functions relations and countability

A Concise Introduction to Programming in Python 2018-04-17 the student of calculus is entitled to ask what calculus is and what it can be used for this short book provides an answer the author starts by demonstrating that calculus provides a mathematical tool for the quantitative analysis of a wide range of dynamical phenomena and systems with variable quantities he then looks at the origins and intuitive sources of calculus its fundamental methodology and its general framework and basic structure before examining a few typical applications the author s style is direct and pedagogical the new student should find that the book provides a clear and strong grounding in this important technique

Concise Introduction to Logic 2019 an introductory course on software engineering remains one of the hardest subjects to teach largely because of the wide range of topics the area enc passes i have believed for some time that we often tend to teach too many concepts and topics in an introductory course resulting in shallow knowledge and

little insight on application of these concepts and software engineering is nally about application of concepts to e
ciently engineer good software solutions goals i believe that an introductory course on software engineering should
focus on imparting to students the knowledge and skills that are needed to successfully execute a commercial
project of a few person months e ort while employing proper practices and techniques it is worth pointing out that a
vast majority of the projects executed in the industry today fall in this scope executed by a small team over a few
months i also believe that by carefully selecting the concepts and topics we can in the course of a semester achieve
this this is the motivation of this book the goal of this book is to introduce to the students a limited number of
concepts and practices which will achieve the following two objectives teach the student the skills needed to
execute a smallish commercial project

A Concise Introduction to Pure Mathematics, Second Edition 2005-11-02 this book will enable the reader to
very quickly begin programming in assembly language through this hands on programming readers will also learn
more about the computer architecture of the intel 32 bit processor as well as the relationship between high level
and low level languages topics presents an overview of assembly language and an introduction to general purpose
registers illustrates the key concepts of each chapter with complete programs chapter summaries and exercises
covers input output basic arithmetic instructions selection structures and iteration structures introduces logic shift
arithmetic shift rotate and stack instructions discusses procedures and macros and examines arrays and strings
investigates machine language from a discovery perspective this textbook is an ideal introduction to programming
in assembly language for undergraduate students and a concise guide for professionals wishing to learn how to
write logically correct programs in a minimal amount of time

A Concise Introduction To Calculus 1995-09-28 the human journey offers a truly concise yet satisfying full
history of the world from ancient times to the present its themes include not only the great questions of the
humanities nature versus nurture the history and meaning of human variation the sources of wealth and causes of
revolution but also the major transformations in human history agriculture cities iron writing universal religions
global trade industrialization popular government justice and equality beginning with our most important questions
and searching all of our past for answers this is world history in a grand humanistic tradition

A Concise Introduction to Hungarian 1996 offering guidance on a wide variety of research management topics
this text provides an overview of the entire field identifying the key issues that students need to be aware of when
carrying out research

Concise Introduction to Logic 1996-01-01 this little book is the outgrowth of a one semester course which i have
taught for each of the past four years at m 1 t although this class used to be one of the standard courses taken by
essentially every first year gradu ate student of mathematics in recent years at least in those when i was the
instructor the clientele has shifted from first year graduate students of mathematics to more advanced graduate
students in other disciplines in fact the majority of my students have been from departments of engi neering
especially electrical engineering and most of the rest have been economists whether this state of affairs is a
reflection on my teaching the increased importance of mathematical analysis in other disciplines the superior
undergraduate preparation of students coming to m 1 t in mathematics or simply the lack of enthusiasm that these
students have for analysis i have preferred not to examine too closely on the other hand the situation did force me
to do a certain amount of thinking about what constitutes an appropriate course for a group of non mathematicians
who are courageous foolish enough to sign up for an introduction to in tegration theory offered by the department
of mathematics in particular i had to figure out what to do about that vast body of material which in standard
mathematics offerings is assumed to have been covered in your advanced calculus course

A Concise Introduction to Algebraic Varieties 2021-12-06 this undergraduate textbook offers a self contained
and concise introduction to measure theory and integration the author takes an approach to integration based on
the notion of distribution this approach relies on deeper properties of the riemann integral which may not be
covered in standard undergraduate courses it has certain advantages notably simplifying the extension to fuzzy
measures which is one of the many topics covered in the book this book will be accessible to undergraduate
students who have completed a first course in the foundations of analysis containing numerous examples as well as
fully solved exercises it is exceptionally well suited for self study or as a supplement to lecture courses

A Concise Introduction to Software Engineering 2009-08-29 this textbook provides an accessible and concise
introduction to numerical analysis for upper undergraduate and beginning graduate students from various
backgrounds it was developed from the lecture notes of four successful courses on numerical analysis taught within
the mphil of scientific computing at the university of cambridge the book is easily accessible even to those with

limited knowledge of mathematics students will get a concise but thorough introduction to numerical analysis in addition the algorithmic principles are emphasized to encourage a deeper understanding of why an algorithm is suitable and sometimes unsuitable for a particular problem a concise introduction to numerical analysis strikes a balance between being mathematically comprehensive but not overwhelming with mathematical detail in some places where further detail was felt to be out of scope of the book the reader is referred to further reading the book uses matlab implementations to demonstrate the workings of the method and thus matlab's own implementations are avoided unless they are used as building blocks of an algorithm in some cases the listings are printed in the book but all are available online on the book's page at crcpress.com most implementations are in the form of functions returning the outcome of the algorithm also examples for the use of the functions are given exercises are included in line with the text where appropriate and each chapter ends with a selection of revision exercises solutions to odd numbered exercises are also provided on the book's page at crcpress.com this textbook is also an ideal resource for graduate students coming from other subjects who will use numerical techniques extensively in their graduate studies

Guide to Assembly Language 2011-03-01 a concise introduction to languages machines and logic provides an accessible introduction to three key topics within computer science formal languages abstract machines and formal logic written in an easy to read informal style this textbook assumes only a basic knowledge of programming on the part of the reader the approach is deliberately non mathematical and features clear explanations of formal notation and jargon extensive use of examples to illustrate algorithms and proofs pictorial representations of key concepts chapter opening overviews providing an introduction and guidance to each topic end of chapter exercises and solutions offers an intuitive approach to the topics this reader friendly textbook has been written with undergraduates in mind and will be suitable for use on course covering formal languages formal logic computability and automata theory it will also make an excellent supplementary text for courses on algorithm complexity and compilers

le-Concise Introduction to Logic 2008-02-01 this textbook provides an accessible and concise introduction to numerical analysis for upper undergraduate and beginning graduate students from various backgrounds it was developed from the lecture notes of four successful courses on numerical analysis taught within the mphil of scientific computing at the university of cambridge the book is easily accessible even to those with limited knowledge of mathematics students will get a concise but thorough introduction to numerical analysis in addition the algorithmic principles are emphasized to encourage a deeper understanding of why an algorithm is suitable and sometimes unsuitable for a particular problem a concise introduction to numerical analysis strikes a balance between being mathematically comprehensive but not overwhelming with mathematical detail in some places where further detail was felt to be out of scope of the book the reader is referred to further reading the book uses matlab implementations to demonstrate the workings of the method and thus matlab's own implementations are avoided unless they are used as building blocks of an algorithm in some cases the listings are printed in the book but all are available online on the book's page at crcpress.com most implementations are in the form of functions returning the outcome of the algorithm also examples for the use of the functions are given exercises are included in line with the text where appropriate and each chapter ends with a selection of revision exercises solutions to odd numbered exercises are also provided on the book's page at crcpress.com this textbook is also an ideal resource for graduate students coming from other subjects who will use numerical techniques extensively in their graduate studies

A Concise Introduction to Pure Mathematics 2001-04-01 discover how geometric integrators preserve the main qualitative properties of continuous dynamical systems a concise introduction to geometric numerical integration presents the main themes techniques and applications of geometric integrators for researchers in mathematics physics astronomy and chemistry who are already familiar with numerical tools for solving differential equations it also offers a bridge from traditional training in the numerical analysis of differential equations to understanding recent advanced research literature on numerical geometric integration the book first examines high order classical integration methods from the structure preservation point of view it then illustrates how to construct high order integrators via the composition of basic low order methods and analyzes the idea of splitting it next reviews symplectic integrators constructed directly from the theory of generating functions as well as the important category of variational integrators the authors also explain the relationship between the preservation of the geometric properties of a numerical method and the observed favorable error propagation in long time integration the book concludes with an analysis of the applicability of splitting and composition methods to certain classes of

partial differential equations such as the schrödinger equation and other evolution equations the motivation of geometric numerical integration is not only to develop numerical methods with improved qualitative behavior but also to provide more accurate long time integration results than those obtained by general purpose algorithms accessible to researchers and post graduate students from diverse backgrounds this introductory book gets readers up to speed on the ideas methods and applications of this field readers can reproduce the figures and results given in the text using the matlab programs and model files available online

The Human Journey 2012 mathematical logic developed into a broad discipline with many applications in mathematics informatics linguistics and philosophy this text introduces the fundamentals of this field and this new edition has been thoroughly expanded and revised

A Concise Introduction to Logic 1972 concise introduction to linear algebra deals with the subject of linear algebra covering vectors and linear systems vector spaces orthogonality determinants eigenvalues and eigenvectors singular value decomposition it adopts an efficient approach to lead students from vectors matrices quickly into more advanced topics including lu decomposition orthogonal decomposition least squares solutions gram schmidt process eigenvalues and eigenvectors diagonalizability spectral decomposition positive definite matrix quadratic forms singular value decompositions and principal component analysis this book is designed for onesemester teaching to undergraduate students

A Concise Introduction to Logic 2013

Research Methods 2009

A Concise Introduction to the Theory of Integration 2013-03-14

A Concise Introduction to Measure Theory 2019-03-15

A Concise Introduction to Philosophy 1976

A Concise Introduction to Numerical Analysis 2016-03-23

A Concise Introduction to Languages and Machines 2008-09-29

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