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From the bestselling author of the acclaimed *Chaos and Genius* comes a thoughtful and provocative exploration of the big ideas of the modern era: information, communication, and information theory. Acclaimed science writer James Gleick presents an eye-opening vision of how our relationship to information has transformed the very nature of human consciousness. A fascinating intellectual journey through the history of communication and information, from the language of Africa's talking drums to the invention of written alphabets; from the electronic transmission of code to the origins of information theory, into the new information age and the current deluge of news, tweets, images, and blogs. Along the way, Gleick profiles key innovators, including Charles Babbage, Ada Lovelace, Samuel Morse, and

Claude Shannon, and reveals how our understanding of information is transforming not only how we look at the world, but how we live. A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN/E. O. Wilson Literary Science Writing Award When Marl Judson, fleeing a rapacious government that wanted not just his fabulous wealth but his life, crash-landed on a uninhabited planet, he thought he was marooned without hope of rescue, so he prepared himself to live out his remaining years as best he could amidst the planet's weird hallucinogenic flora. But head-twisting flowers (which Judson learned to avoid) were only part of the planet's weirdness: it was possessed of some sort of field effect which made time play strange tricks; temporal anomalies sometimes resulted in cause preceding effect and bizarre compressions and expansions of the normal pace of events. In such an environment time had no meaning; has Judson lived centuries alone, or only decades? Or is it years? Or all of the above? He doesn't quite know, but when another ship crashes the strange time effects allow(ed) him to conduct an experiment aimed at producing a perfect society, a veritable Judson's Eden. The the Snake arrives in the form of the government that marooned him - and the Snake wants Judson's Eden for itself. This open access book presents the first comprehensive overview of general methods in Automated Machine Learning (AutoML), collects descriptions of existing systems based on these methods, and discusses the first series of international challenges of AutoML systems. The recent success of commercial ML applications and the rapid growth of the field has created a high demand for off-the-shelf ML methods that can be used easily and without expert knowledge. However, many of the recent machine learning successes crucially rely on human experts, who manually select appropriate ML architectures (deep learning architectures or more traditional ML workflows) and their hyperparameters. To overcome this problem, the field of AutoML targets a progressive automation of machine learning, based on principles from optimization and machine learning itself. This book serves as a point of entry into this quickly-developing field for researchers and advanced students alike, as well as providing a reference for practitioners aiming to use AutoML in their work. DIVBasic treatment, incorporating language of abstract algebra and a history of the discipline. Unique factorization and the GCD, quadratic residues, sums of squares, much more. Numerous problems. Bibliography. 1977 edition. /div New York Times

and Wall Street Journal bestseller *A step-by-step plan clinically proven to break the cycle of worry and fear that drives anxiety and addictive habits*. We are living through one of the most anxious periods any of us can remember. Whether facing issues as public as a pandemic or as personal as having kids at home and fighting the urge to reach for the wine bottle every night, we are feeling overwhelmed and out of control. But in this timely book, Judson Brewer explains how to uproot anxiety at its source using brain-based techniques and small hacks accessible to anyone. We think of anxiety as everything from mild unease to full-blown panic. But it's also what drives the addictive behaviors and bad habits we use to cope (e.g. stress eating, procrastination, doom scrolling and social media). Plus, anxiety lives in a part of the brain that resists rational thought. So we get stuck in anxiety habit loops that we can't think our way out of or use willpower to overcome. Dr. Brewer teaches us to map our brains to discover our triggers, defuse them with the simple but powerful practice of curiosity, and to train our brains using mindfulness and other practices that his lab has proven can work. Distilling more than 20 years of research and hands-on work with thousands of patients, including Olympic athletes and coaches, and leaders in government and business, Dr. Brewer has created a clear, solution-oriented program that anyone can use to feel better - no matter how anxious they feel. This text offers a friendly and concise introduction to abstract algebra, emphasizing its uses in the modern world. Accessible to junior and senior undergraduate students, this survey contains many examples, solved exercises, sets of problems, and parts of abstract algebra of use in many other areas of discrete mathematics. Although this is a mathematics book, the authors have made great efforts to address the needs of users employing the techniques discussed. Fully worked out computational examples are backed by more than 500 exercises throughout the 40 sections. This new edition includes a new chapter on cryptology, and an enlarged chapter on applications of groups, while an extensive chapter has been added to survey other applications not included in the first edition. The book assumes knowledge of the material covered in a course on linear algebra and, preferably, a first course in (abstract) algebra covering the basics of groups, rings, and fields. *Abstract Algebra: Theory and Applications* is an open-source textbook that is designed to teach the principles and theory of abstract algebra to college juniors and seniors in a rigorous manner. Its strengths include a wide range

of exercises, both computational and theoretical, plus many non-trivial applications. The first half of the book presents group theory, through the Sylow theorems, with enough material for a semester-long course. The second half is suitable for a second semester and presents rings, integral domains, Boolean algebras, vector spaces, and fields, concluding with Galois Theory. Praise for the Third Edition ". . . an expository masterpiece of the highest didactic value that has gained additional attractivity through the various improvements . . ."—Zentralblatt MATH

The Fourth Edition of *Introduction to Abstract Algebra* continues to provide an accessible approach to the basic structures of abstract algebra: groups, rings, and fields. The book's unique presentation helps readers advance to abstract theory by presenting concrete examples of induction, number theory, integers modulo n , and permutations before the abstract structures are defined. Readers can immediately begin to perform computations using abstract concepts that are developed in greater detail later in the text. The Fourth Edition features important concepts as well as specialized topics, including:

- The treatment of nilpotent groups, including the Frattini and Fitting subgroups
- Symmetric polynomials
- The proof of the fundamental theorem of algebra using symmetric polynomials
- The proof of Wedderburn's theorem on finite division rings
- The proof of the Wedderburn-Artin theorem

Throughout the book, worked examples and real-world problems illustrate concepts and their applications, facilitating a complete understanding for readers regardless of their background in mathematics. A wealth of computational and theoretical exercises, ranging from basic to complex, allows readers to test their comprehension of the material. In addition, detailed historical notes and biographies of mathematicians provide context for and illuminate the discussion of key topics. A solutions manual is also available for readers who would like access to partial solutions to the book's exercises.

Introduction to Abstract Algebra, Fourth Edition is an excellent book for courses on the topic at the upper-undergraduate and beginning-graduate levels. The book also serves as a valuable reference and self-study tool for practitioners in the fields of engineering, computer science, and applied mathematics.

An Introduction to Analysis, Second Edition provides a mathematically rigorous introduction to analysis of real-valued functions of one variable. The text is written to ease the transition from primarily computational to primarily theoretical mathematics. Numerous examples and exercises help students to understand mathematical proofs

in an abstract setting, as well as to be able to formulate and write them. The material is as clear and intuitive as possible while still maintaining mathematical integrity. The author presents abstract mathematics in a way that makes the subject both understandable and exciting to students. According to the great mathematician Paul Erdős, God maintains perfect mathematical proofs in *The Book*. This book presents the authors' candidates for such "perfect proofs," those which contain brilliant ideas, clever connections, and wonderful observations, bringing new insight and surprising perspectives to problems from number theory, geometry, analysis, combinatorics, and graph theory. As a result, this book will be fun reading for anyone with an interest in mathematics. The Student Solutions Manual supports students in their independent study and review efforts, using it alongside the main text *Linear Algebra by Carlen. Elementary Differential Equations and Boundary Value Problems 11e*, like its predecessors, is written from the viewpoint of the applied mathematician, whose interest in differential equations may sometimes be quite theoretical, sometimes intensely practical, and often somewhere in between. The authors have sought to combine a sound and accurate (but not abstract) exposition of the elementary theory of differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications. While the general structure of the book remains unchanged, some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications. In addition to expanded explanations, the 11th edition includes new problems, updated figures and examples to help motivate students. The program is primarily intended for undergraduate students of mathematics, science, or engineering, who typically take a course on differential equations during their first or second year of study. The main prerequisite for engaging with the program is a working knowledge of calculus, gained from a normal two or three semester course sequence or its equivalent. Some familiarity with matrices will also be helpful in the chapters on systems of differential equations. An indispensable companion to the book hailed an "expository masterpiece of the highest didactic value" by *Zentralblatt MATH*. This solutions manual helps readers test and reinforce the understanding of the principles and real-world applications of abstract algebra gained from their reading of the critically acclaimed *Introduction to Abstract Algebra*. Ideal for students, as

well as engineers, computer scientists, and applied mathematicians interested in the subject, it provides a wealth of concrete examples of induction, number theory, integers modulo n , and permutations. Worked examples and real-world problems help ensure a complete understanding of the subject, regardless of a reader's background in mathematics. This textbook provides an accessible account of the history of abstract algebra, tracing a range of topics in modern algebra and number theory back to their modest presence in the seventeenth and eighteenth centuries, and exploring the impact of ideas on the development of the subject. Beginning with Gauss's theory of numbers and Galois's ideas, the book progresses to Dedekind and Kronecker, Jordan and Klein, Steinitz, Hilbert, and Emmy Noether. Approaching mathematical topics from a historical perspective, the author explores quadratic forms, quadratic reciprocity, Fermat's Last Theorem, cyclotomy, quintic equations, Galois theory, commutative rings, abstract fields, ideal theory, invariant theory, and group theory. Readers will learn what Galois accomplished, how difficult the proofs of his theorems were, and how important Camille Jordan and Felix Klein were in the eventual acceptance of Galois's approach to the solution of equations. The book also describes the relationship between Kummer's ideal numbers and Dedekind's ideals, and discusses why Dedekind felt his solution to the divisor problem was better than Kummer's. Designed for a course in the history of modern algebra, this book is aimed at undergraduate students with an introductory background in algebra but will also appeal to researchers with a general interest in the topic. With exercises at the end of each chapter and appendices providing material difficult to find elsewhere, this book is self-contained and therefore suitable for self-study. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Originally published: New York: McGraw-Hill, 1971. 2nd ed. Includes a new introduction. This book is about the development of knowledge-based, and related, expert systems in chemistry and toxicology. It shows how computers can work with qualitative information where precise numerical methods are not satisfactory. As well as explaining to a reader with a knowledge of chemistry how the computer programs work, the book provides insights into how personal and political factors influence scientific progress. It provides an understanding of how predictions and judgements are being made without depending on numerical methods. It provides an excellent introduction to an

exciting area of computing in chemistry which is rapidly gaining importance and will be of interest to students of all levels, scientists and academics affiliated to or working in this area. Law and Ethics for Health Professions explains how to navigate the numerous legal and ethical issues that health care professionals face every day. Topics are based upon real-world scenarios and dilemmas from a variety of health care practitioners. Through the presentation of Learning Outcomes, Key Terms, From the Perspective of, Ethics Issues, Chapter Reviews, Case Studies, Internet Activities, Court Cases, and Video Vignettes, students learn about legal and ethical problems and situations that health care professions currently face. In the eighth edition, chapter 3 contains an expanded section on accreditation of hospitals and other patient care facilities, and of health care education programs. Students also use critical thinking skills to learn how to resolve real-life situations and theoretical scenarios and to decide how legal and ethical issues are relevant to the health care profession in which they will practice. Ten years from now, what do you want or expect your students to remember from your course? We realized that in ten years what matters will be how students approach a problem using the tools they carry with them—common sense and common knowledge—not the particular mathematics we chose for the curriculum. Using our text, students work regularly with real data in moderately complex everyday contexts, using mathematics as a tool and common sense as a guide. The focus is on problems suggested by the news of the day and topics that matter to students, like inflation, credit card debt, and loans. We use search engines, calculators, and spreadsheet programs as tools to reduce drudgery, explore patterns, and get information. Technology is an integral part of today's world—this text helps students use it thoughtfully and wisely. This second edition contains revised chapters and additional sections, updated examples and exercises, and complete rewrites of critical material based on feedback from students and teachers who have used this text. Our focus remains the same: to help students to think carefully—and critically—about numerical information in everyday contexts. Holt's Linear Algebra with Applications, Second Edition, blends computational and conceptual topics throughout to prepare students for the rigors of conceptual thinking in an abstract setting. The early treatment of conceptual topics in the context of Euclidean space gives students more time, and a familiar setting, in which to absorb them. This organization also makes it possible to treat

eigenvalues and eigenvectors earlier than in most texts. Abstract vector spaces are introduced later, once students have developed a solid conceptual foundation. Concepts and topics are frequently accompanied by applications to provide context and motivation. Because many students learn by example, Linear Algebra with Applications provides a large number of representative examples, over and above those used to introduce topics. The text also has over 2500 exercises, covering computational and conceptual topics over a range of difficulty levels. This textbook introduces the basic notions of group theory by a thorough treatment of important examples, including complex numbers, modular arithmetic, symmetries, and permutations. Also included are applications to communications, cryptography, and coding theory.

CONTEMPORARY ABSTRACT ALGEBRA, NINTH EDITION provides a solid introduction to the traditional topics in abstract algebra while conveying to students that it is a contemporary subject used daily by working mathematicians, computer scientists, physicists, and chemists. The text includes numerous figures, tables, photographs, charts, biographies, computer exercises, and suggested readings giving the subject a current feel which makes the content interesting and relevant for students.

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A practical guide to soil tests for Australian soils and conditions. This is the most current textbook in teaching the basic concepts of abstract algebra. The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem. Therefore, this is a hands-on manual, where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned. Each chapter begins with a statement of a major result in Group and Ring Theory, followed by problems and solutions.

Contents: Tools and Major Results of Groups; Problems in Group Theory; Tools and Major Results of Ring Theory; Problems in Ring Theory; Index.

Market_Desc: Upper undergraduate and graduate level modern algebra courses

Special Features:

- Includes applications so students can see right away how to use the theory
- This classic text has sold almost 12,000 units
- Contains numerous examples
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polynomial and Euclidean rings, quotient rings, field extensions, Latin squares, geometrical constructions, and error-correcting codes. Answers to odd-numbered exercises so students can check their work. About The Book: The book covers all the group, ring, and field theory that is usually contained in a standard modern algebra course; the exact sections containing this material are indicated in the Table of Contents. It stops short of the Sylow theorems and Galois theory. These topics could only be touched on in a first course, and the author feels that more time should be spent on them if they are to be appreciated. With an emphasis on methodology, this reference provides a comprehensive examination of water movement as well as the movement of various pollutants in the earth's subsurface. The multidisciplinary approach integrates earth science, fluid mechanics, mathematics, statistics, and chemistry. Ideal for both professionals and students, this is a practical guide to the practices, procedures, and rules for dealing with groundwater. Algebra, Second Edition, by Michael Artin, is ideal for the honors undergraduate or introductory graduate course. The second edition of this classic text incorporates twenty years of feedback and the author's own teaching experience. The text discusses concrete topics of algebra in greater detail than most texts, preparing students for the more abstract concepts; linear algebra is tightly integrated throughout. The first book dedicated specifically to automated sample preparation and analytical measurements, this timely and systematic overview not only covers biological applications, but also environmental measuring technology, drug discovery, and quality assurance. Following a critical review of realized automation solutions in biological sciences, the book goes on to discuss special requirements for comparable systems for analytical applications, taking different concepts into consideration and with examples chosen to illustrate the scope and limitations of each technique. Covers all aspects of modifying the MG Midget and Austin Healey Sprite for high performance. Includes engine/driveline, suspension, brakes, and much more. with 400 mainly colour photos and exclusive tuning advice, this is a MUST for any Sprite or Midget owner.

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