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**An Introduction to the Theory of Numbers** *An Introduction to the Theory of Numbers* **An introduction to the theory of numbers Irrational Numbers Introduction to the Theory of Numbers Numbers, Rational and Irrational** *An Introduction to the Theory of Numbers [by] Ivan Niven [and] Herbert S. Zuckerman* Mathematics of Choice **An Introduction to the Theory of Numbers Diophantine Approximations** Breathless **A Classical Introduction to Modern Number Theory An Adventurer's Guide to Number Theory** Biscuits of Number Theory **The Theory of Numbers Maxima and Minima Without Calculus Rainbow Mars All the Bright Places Dream Park Elementary Number Theory: Primes, Congruences, and Secrets** The Higher Arithmetic *Elements of Number Theory* **The Man-Kzin Wars Elementary Number Theory** Fleet of Worlds **The Mote in God's Eye** Elementary Number Theory with Applications **Ringworld** *Holding Up the Universe NUMBERS: RATIONAL AND IRRATIONAL. BY IVAN NIVEN.* **Number Theory** *Fundamentals of Number Theory* **Number Theory NIV An Illustrated Theory of Numbers Inferno** *Number Theory Friendly Introduction to Number Theory, a (Classic Version) The Magic Goes Away* **A Computational Introduction to Number Theory and Algebra**

Science fiction-roman. NOW A NETFLIX FILM, STARRING ELLE FANNING AND JUSTICE SMITH! The New York Times bestselling love story about two teens who find each other while standing on the edge. And don’t miss Take Me with You When You Go, Jennifer Niven’s highly anticipated new book with bestselling author David Levithan! Theodore Finch is fascinated by death. Every day he thinks of ways he might kill himself, but every day he also searches for—and manages to find—something to keep him here, and alive, and awake. Violet Markey lives for the future, counting the days until graduation, when she can escape her small Indiana town and her aching grief in the wake of her sister’s recent death. When Finch and Violet meet on the ledge of the bell tower at school—six stories above the ground—it’s unclear who saves whom. Soon it’s only with Violet that Finch can be himself. And it’s only with Finch that Violet can forget to count away the days and start living them. But as Violet’s world grows, Finch’s begins to shrink. . . . “A do-not-miss for fans of Eleanor & Park and The Fault in Our Stars, and basically anyone who can breathe.” —Justine Magazine “At the heart—a big one—of All the Bright Places lies

a charming love story about this unlikely and endearing pair of broken teenagers." —The New York Times Book Review "A heart-rending, stylish love story." —The Wall Street Journal "A complex love story that will bring all the feels." —Seventeen Magazine "Impressively layered, lived-in, and real." —Buzzfeed A special commemoration of this long_running themed science fiction anthology edited by multiple #1 best seller, Larry Niven. Here is the 25th anniversary edition of the original volume that started it all. Includes an all_new introduction by Larry Niven for this re_issue of the first volume in a series that now numbers fourteen volumes and is still going strong. Larry Niven?s bestselling Man_Kzin series begins! The kzin, formerly invincible conquerors of all they encountered, had a hard time dealing with their ignominious defeat by the leaf_eating humans. Some secretly hatched schemes for a rematch, others concentrated on gathering power within the kzin hierarchy, and some shamefully cooperated with the contemptible humans, though often for hidden motives. In war and in uneasy peace, here is the first masterful volume in the Man_Kzin Wars shared universe anthology created by multiple New York Times best_seller, incomparable tale_spinner, and Nebula_ and five_time Hugo_Award_winner, Larry Niven. At the publisher's request, this title is sold without DRM (Digital Rights Management). This second edition updates the well-regarded 2001 publication with new short sections on topics like Catalan numbers and their relationship to Pascal's triangle and Mersenne numbers, Pollard rho factorization method, Hoggatt-Hensell identity. Koshy has added a new chapter on continued fractions. The unique features of the first edition like news of recent discoveries, biographical sketches of mathematicians, and applications--like the use of congruence in scheduling of a round-robin tournament--are being refreshed with current information. More challenging exercises are included both in the textbook and in the instructor's manual. Elementary Number Theory with Applications 2e is ideally suited for undergraduate students and is especially appropriate for prospective and in-service math teachers at the high school and middle school levels. * Loaded with pedagogical features including fully worked examples, graded exercises, chapter summaries, and computer exercises * Covers crucial applications of theory like computer security, ISBNs, ZIP codes, and UPC bar codes * Biographical sketches lay out the history of mathematics, emphasizing its roots in India and the Middle East Describes techniques for solving problems in maxima and minima other than the methods of calculus. For use in schools and libraries only. A two-headed creature and a large, red-furred carnivore are among the members of a party that arrives to explore a mysterious world created in the shape of a ring. This self-contained treatment covers approximation of irrationals by rationals, product of linear forms, multiples of an irrational number, approximation of complex numbers, and product of complex linear forms. 1963 edition. News about

this title: — Author Marty Weissman has been awarded a Guggenheim Fellowship for 2020. (Learn more here.) — Selected as a 2018 CHOICE Outstanding Academic Title — 2018 PROSE Awards Honorable Mention An Illustrated Theory of Numbers gives a comprehensive introduction to number theory, with complete proofs, worked examples, and exercises. Its exposition reflects the most recent scholarship in mathematics and its history. Almost 500 sharp illustrations accompany elegant proofs, from prime decomposition through quadratic reciprocity. Geometric and dynamical arguments provide new insights, and allow for a rigorous approach with less algebraic manipulation. The final chapters contain an extended treatment of binary quadratic forms, using Conway's topograph to solve quadratic Diophantine equations (e.g., Pell's equation) and to study reduction and the finiteness of class numbers. Data visualizations introduce the reader to open questions and cutting-edge results in analytic number theory such as the Riemann hypothesis, boundedness of prime gaps, and the class number 1 problem. Accompanying each chapter, historical notes curate primary sources and secondary scholarship to trace the development of number theory within and outside the Western tradition. Requiring only high school algebra and geometry, this text is recommended for a first course in elementary number theory. It is also suitable for mathematicians seeking a fresh perspective on an ancient subject. From the #1 New York Times bestselling author of All the Bright Places comes an unforgettable summer novel, set on an island off the coast of Georgia, about a sensitive girl ready to live her bravest life--sex, love, heartbreak, and all. Before: With graduation on the horizon, budding writer Claudine Henry is focused on three things: college in the fall, become a famous author, and the ever-elusive possibility of sex. She doesn't even need to be in love--sex is all she's looking for. Then her dad drops a bombshell: he and Claude's mom are splitting up. Suddenly, Claude's entire world feels like a lie, and the ground under her feet anything but stable. After: Claude's mom whisks them both away to a remote, mosquito-infested island off the coast of Georgia, a place where the two of them can start the painful process of mending their broken hearts. It's the last place Claude can imagine finding her footing, but then Jeremiah Crew happens. Miah is a local trail guide with a passion for photography, and a past he doesn't like to talk about. He's brash, enigmatic, and even more infuriatingly, he's the only one who seems to see Claude for who she wants to be. So when Claude decides to sleep with Miah, she tells herself it's just sex--exactly what she has planned. There isn't enough time to fall in love, especially if it means putting her already broken heart at risk. Compulsively readable and impossible to forget, Jennifer Niven's luminous new novel is an insightful portrait of a young woman determined to write her own next chapter--sex, resilience, mosquito bites, and all. The central theme of this book is the solution of Diophantine

equations, i.e., equations or systems of polynomial equations which must be solved in integers, rational numbers or more generally in algebraic numbers. This theme, in particular, is the central motivation for the modern theory of arithmetic algebraic geometry. In this text, this is considered through three of its most basic aspects. The book contains more than 350 exercises and the text is largely self-contained. Much more sophisticated techniques have been brought to bear on the subject of Diophantine equations, and for this reason, the author has included five appendices on these techniques. Acclaimed writing pair Larry Niven and Jerry Pournelle offer a new twist on Dante's classic tale, Inferno. After being thrown out the window of his luxury apartment, science fiction writer Allen Carpentier wakes to find himself at the gates of hell. Feeling he's landed in a great opportunity for a book, he attempts to follow Dante's road map. Determined to meet Satan himself, Carpentier treks through the Nine Layers of Hell led by Benito Mussolini, and encounters countless mental and physical tortures. As he struggles to escape, he's taken through new, puzzling, and outlandish versions of sin—recast for the present day. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied. An undergraduate-level introduction to number theory, with the emphasis on fully explained proofs and examples. Exercises, together with their solutions are integrated into the text, and the first few chapters assume only basic school algebra. Elementary ideas about groups and rings are then used to study groups of units, quadratic residues and arithmetic functions with applications to enumeration and cryptography. The final part, suitable for third-year students, uses ideas from algebra, analysis, calculus and geometry to study Dirichlet series and sums of squares. In particular, the last chapter gives a concise account of Fermat's Last Theorem, from its origin in the ancient Babylonian and Greek study of Pythagorean triples to its recent proof by Andrew Wiles. Number Theory has fascinated mathematicians from the most ancient of times. A remarkable feature of number theory is the fact that there is something in it for everyone from puzzle enthusiasts, problem solvers and amatcur mathematicians to professional scientists and technologists. Internationally recognized mathematician, Ivan Niven's 6th Edition of An Introduction to the Theory of Numbers continues to focus on number theory. The text expands on previous issues with more in-depth and enhanced treatment of the binomial theorem, techniques of numerical calculation and public key cryptography, as well as new outstanding set of problems. Chapters are easy to read with several new features and more information on techniques of numerical calculation, expanded treatment of the binomial theorem, and a section on public key cryptography. The Fifth Edition of one of the standard works on number theory, written by internationally-recognized mathematicians. Chapters are relatively self-contained for greater flexibility. New features include expanded

treatment of the binomial theorem, techniques of numerical calculation and a section on public key cryptography. Contains an outstanding set of problems. Larry Niven created his popular "Magic Goes Away" universe in 1967, and it has been a source of delight and inspiration ever since. By asking the simple question, What if magic were a finite resource?, Niven brought to life a mesmerizing world of wonder and loss, of hope and despair. The success of his first story collection, "The Magic Goes Away, " birthed two sequel anthologies, "The Magic May Return" and "More Magic." All three volumes are collected here for the first time, with stories by Niven himself, as well as contributions by such luminaries of fantasy as Roger Zelazny, Fred Saberhagen, Steven Barnes, and Poul Anderson. Featuring a brand-new introduction by Larry Niven, "The Magic Goes Away Collection" gives readers insight into the breathtaking world of Niven and Jerry Pournelle's "The Burning City" and "Burning Tower" and stands on its own as a landmark in fantasy fiction For one-semester undergraduate courses in Elementary Number Theory This title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit www.pearsonhighered.com/math-classics-series for a complete list of titles. A Friendly Introduction to Number Theory, 4th Edition is designed to introduce students to the overall themes and methodology of mathematics through the detailed study of one particular facet-number theory. Starting with nothing more than basic high school algebra, students are gradually led to the point of actively performing mathematical research while getting a glimpse of current mathematical frontiers. The writing is appropriate for the undergraduate audience and includes many numerical examples, which are analyzed for patterns and used to make conjectures. Emphasis is on the methods used for proving theorems rather than on specific results. Clear, detailed exposition that can be understood by readers with no background in advanced mathematics. More than 200 problems and full solutions, plus 100 numerical exercises. 1949 edition. A brand-new novel set in Niven's Known Space, two hundred years before the discovery of the Ringworld. The beginning of a hard sci-fi series, Deam Park is a visionary science fiction classic from Larry Niven and Steven Barnes A group of pretend adventurers suit up for a campaign called "The South Seas Treasure Game." As in the early Role Playing Games, there are Dungeon Masters, warriors, magicians, and thieves. The difference? At Dream Park, a futuristic fantasy theme park full of holographic attractions and the latest in VR technology, they play in an artificial enclosure that has been enhanced with special effects, holograms, actors, and a clever storyline. The players get as close as possible to truly living their adventure. All's fun and games until a Park security guard is murdered, a valuable research property is stolen, and all evidence points to someone inside the game. The park's head of security, Alex Griffin, joins the game to find the killer, but finds

new meaning in the games he helps keep alive. At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied. From the author of the New York Times bestseller All the Bright Places comes a heart-wrenching story about what it means to see someone - and love someone - for who they truly are. Everyone thinks they know Libby Strout. I know the part I want to play here at MVB High. I want to be the girl who can do anything. Once dubbed 'America's Fattest Teen', she is only seen for her weight. Not the girl underneath. Since her mum's death she's been picking up the pieces in private, alone with her heartbroken father. But now, Libby is ready. She's ready for high school, for new friends, for love and for every possibility life has to offer. Everyone thinks they know Jack Masselin too. Be charming. Be hilarious. Don't get too close to anyone. Yes, he's got swagger, but he's also mastered the art of fitting in. What no one knows is that Jack has a secret: he can't recognize faces. Even his own brothers are strangers to him. He's the guy who can re-engineer and rebuild anything, but he can't understand what's going on with the inner workings of his own brain. When Jack and Libby meet, they discover that the more time they spend together, the less alone they feel. Praise for All the Bright Places: 'If you're looking for the next The Fault in Our Stars - this is it' Guardian '[A] heartbreaking love story about two funny, fragile, and wildly damaged high school kids' Entertainment Weekly 'A do-not-miss for fans of Eleanor & Park and The Fault in Our Stars, and basically anyone who can breathe' Justine Magazine 'At the heart - a big one - of All the Bright Places lies a charming love story about this unlikely and endearing pair of broken teenagers' The New York Times Book Review This is a book about prime numbers, congruences, secret messages, and elliptic curves that you can read cover to cover. It grew out of undergr- uate courses that the author taught at Harvard, UC San Diego, and the University of Washington. The systematic study of number theory was initiated around 300B. C. when Euclid proved that there are in?nitely many prime numbers, and also cleverly deduced the fundamental theorem of arithmetic, which asserts that every positive integer factors uniquely as a product of primes. Over a thousand years later (around 972A. D. ) Arab mathematicians formulated the congruent number problem that asks for a way to decide whether or not a given positive integer n is the area of a right triangle, all three of whose sides are rational numbers. Then another thousand years later (in 1976), Di?e and Hellman introduced the ?rst ever public-key cryptosystem, which enabled two people to communicate secretely over a public communications channel with no predetermined secret; this invention and the ones that followed it revolutionized the world of digital communication. In the 1980s and 1990s, elliptic curves revolutionized number theory, providing striking new insights into the congruent number problem, primality testing, publ- key cryptography, attacks on public-key

systems, and playing a central role in Andrew Wiles' resolution of Fermat's Last Theorem. Now in its second edition, this textbook provides an introduction and overview of number theory based on the density and properties of the prime numbers. This unique approach offers both a firm background in the standard material of number theory, as well as an overview of the entire discipline. All of the essential topics are covered, such as the fundamental theorem of arithmetic, theory of congruences, quadratic reciprocity, arithmetic functions, and the distribution of primes. New in this edition are coverage of p-adic numbers, Hensel's lemma, multiple zeta-values, and elliptic curve methods in primality testing. Key topics and features include: A solid introduction to analytic number theory, including full proofs of Dirichlet's Theorem and the Prime Number Theorem Concise treatment of algebraic number theory, including a complete presentation of primes, prime factorizations in algebraic number fields, and unique factorization of ideals Discussion of the AKS algorithm, which shows that primality testing is one of polynomial time, a topic not usually included in such texts Many interesting ancillary topics, such as primality testing and cryptography, Fermat and Mersenne numbers, and Carmichael numbers The user-friendly style, historical context, and wide range of exercises that range from simple to quite difficult (with solutions and hints provided for select exercises) make Number Theory: An Introduction via the Density of Primes ideal for both self-study and classroom use. Intended for upper level undergraduates and beginning graduates, the only prerequisites are a basic knowledge of calculus, multivariable calculus, and some linear algebra. All necessary concepts from abstract algebra and complex analysis are introduced where needed. This book is a revised and greatly expanded version of our book Elements of Number Theory published in 1972. As with the first book the primary audience we envisage consists of upper level undergraduate mathematics majors and graduate students. We have assumed some familiarity with the material in a standard undergraduate course in abstract algebra. A large portion of Chapters 1-11 can be read even without such background with the aid of a small amount of supplementary reading. The later chapters assume some knowledge of Galois theory, and in Chapters 16 and 18 an acquaintance with the theory of complex variables is necessary. Number theory is an ancient subject and its content is vast. Any intro ductory book must, of necessity, make a very limited selection from the fascinat ing array of possible topics. Our focus is on topics which point in the direction of algebraic number theory and arithmetic algebraic geometry. By a careful selection of subject matter we have found it possible to exposit some rather advanced material without requiring very much in the way oftechnical background. Most of this material is classical in the sense that is was dis covered during the nineteenth century and earlier, but it is also modern because it is intimately related

to important research going on at the present time. In this monograph, Ivan Niven provides a masterful exposition of some central results on irrational, transcendental, and normal numbers. He gives a complete treatment by elementary methods of the irrationality of the exponential, logarithmic, and trigonometric functions with rational arguments. The approximation of irrational numbers by rationals, up to such results as the best possible approximation of Hurwitz, is also given with elementary technique. The last third of the monograph treats normal and transcendental numbers, including the Lindemann theorem, and the Gelfond-Schneider theorem. The book is wholly self-contained. The results needed from analysis and algebra are central. Well-known theorems, and complete references to standard works are given to help the beginner. The chapters are for the most part independent. There are notes at the end of each chapter citing the main sources used by the author and suggesting further reading. This witty introduction to number theory deals with the properties of numbers and numbers as abstract concepts. Topics include primes, divisibility, quadratic forms, and related theorems. This introductory book emphasises algorithms and applications, such as cryptography and error correcting codes. 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 The theory of numbers is generally considered to be the 'purest' branch of pure mathematics and demands exactness of thought and exposition from its devotees. It is also one of the most highly active and engaging areas of mathematics. Now into its eighth edition The Higher Arithmetic introduces the concepts and theorems of number theory in a way that does not require the reader to have an in-depth knowledge of the theory of numbers but also touches upon matters of deep mathematical significance. Since earlier editions, additional material written by J. H. Davenport has been added, on topics such as Wiles' proof of Fermat's Last Theorem, computers and number theory, and primality testing. Written to be accessible to the general reader, with only high school mathematics as prerequisite, this classic book is also ideal for undergraduate courses on number theory, and covers all the necessary material clearly and succinctly. Science fiction-roman. This is the first and only authorized biography of Academy Award-winning actor David Niven.

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