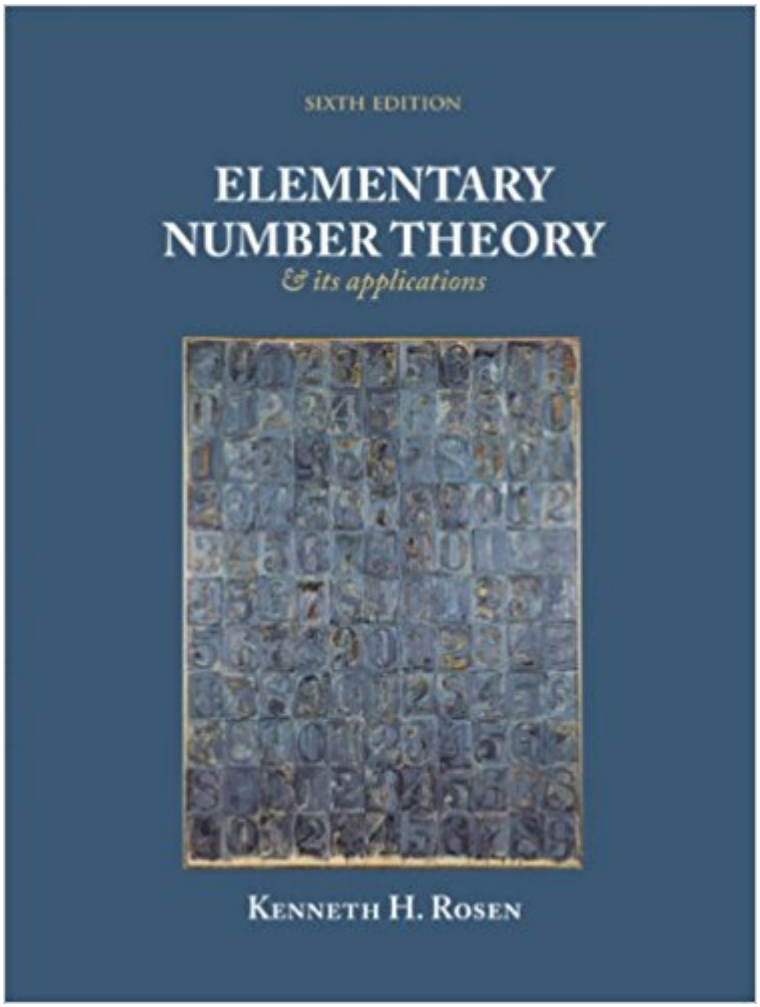
Elementary Number Theory And Its Application, 6th Edition



Synopsis

Elementary Number Theory,Ã Â Sixth Edition, blends classical theory with modern applications and is notable for its outstanding exercise sets. A full range of exercises, from basic to challenging, helps readers explore key concepts and push their understanding to new heights. Computational exercises and computer projects are also available. Reflecting many years of professors' feedback, this edition offers new examples, exercises, and applications, while incorporating advancements and discoveries in number theory made in the past few years.

Book Information

Hardcover: 752 pages

Publisher: Pearson; 6th edition (April 9, 2010)

Language: English

ISBN-10: 0321500318

ISBN-13: 978-0321500311

Product Dimensions: 7.2 x 1.2 x 9.1 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 3.2 out of 5 stars 12 customer reviews

Best Sellers Rank: #41,698 in Books (See Top 100 in Books) #7 inÃ Â Books > Science & Math > Mathematics > Pure Mathematics > Number Theory #734 inÃ Â Books > Textbooks > Science & Mathematics > Mathematics

Customer Reviews

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Kenneth H. Rosen received his BS in mathematics from the University of MichiganÃ¢â ¬â •Ann Arbor (1972) and his PhD in mathematics from MIT (1976). Before joining Bell Laboratories in 1982, he held positions at the University of ColoradoÃ¢â ¬â •Boulder, The Ohio State UniversityÃ¢â ¬â •Columbus, and the University of MaineÃ¢â ¬â •Orono, where he was an associate professor of mathematics. While working at AT&T Laboratories, he taught at Monmouth

University, teaching courses in discrete mathematics, coding theory, and data security. Ã Â Dr. Rosen has published numerous articles in professional journals in the areas of number theory and mathematical modeling. He is the author of Elementary Number Theory, 6/e, and other books.

Nothing is explained well... It’s like they had a strict word count and had to fit every explanation into as few words as possible. It’d be one thing if this book was $100 cheaper, but at this price it should be better. Whether you are using this for a course or on it’s own, expect to have to use plenty of supplementary material to get a grasp on the material "covered".

Try working problems 12, 13, 14, 15, 16, 17, 20, 23, 25, 27, 28, 29, 33, 34, 44 and 45 of section 1.1 from the sketchy exposition provided.Try working problems 5, 10, 14, 15, 16, 17, 21, 22, 23, and 24 from the sketchy exposition provided.in section 1.2Try working out the proofs of Bertrand’s Conjecture and Bonse’s Inequality, topics which deserve their own exposition, asked for in the problems for Section 3.2.Try understanding the least remainder theorem which deserves its own exposition, but instead is relegated to problems 14-18 of Section 3.4, much less working the problems themselves.Problems 10-25 of Section 3.4 or over half are unworkable from the exposition!!!!!Problems 19-42 of Section 7.5 cannot be worked from the exposition.This is only the tip of the iceberg.In addition numerous answers in the back of the book are completely unintelligible.Rosen has gone out of his way to transmogrify an interesting subject into a nightmare of incomprehensibility and frustration and managed to collect royalties for it. I don’t know who is more despicable, Rosen or the reviewers on this thread who are obviously lying through their teeth about this book.In short, this book is roughly 500 pages of incomprehensible trash for which no one reading thr dishonest reviews on this thread should be conned into shelling out his hard-earned dollars.

This book does have some additional exercises, compared to the fifth edition. But it also seems like they just cranked it out without proofreading it at all. It lists changes from the fifth edition: "More attention than ever before has been paid to ensuring the accuracy of this edition. Two independent accuracy checkers have examined the entire text and the answers to exercises." This amuses me. There are numerous errors and typos. In some example problems it might say something like: see theorem #.##, and when you look for this theorem, it has nothing to do with the example, because they didn’t update the number from the 5th edition.In conclusion, the publisher should pay more attention to accuracy, instead of publishing new editions of the book to make more money.As a side

note, this is the only number theory book I've read, so I don't know how it compares to other number theory books.

Uninspired, overpriced book written for the sake of selling textbooks.The needed information is there. If you work through the proofs and do a reasonable selection of exercises, then you should come away with a reasonable understanding of the material. But that's about all that can be said in favor of the book. The presentation of the material consistently bored me, and the exercises involved routine repetitions of examples of the book, very simple proofs that follow almost immediately from definitions, and the type of questions where there's some mundane algebraic trick that you either see or don't. Overall it definitely turned me away from number theory. This book is not significantly better than a long list of definitions, theorems/proofs, and exercises. The mistakes really don't help.Maybe if they used less ink on pictures of mathematicians' faces and other padding, the book wouldn't run 150$ for something that most students are going to try to resell after the course is over.

So my class requires this textbook and I've read up to about chapter 5. There are Numerous amounts of errors. From simplification to numbers magically changing from being negative to positive and equation mistakes. Don't worry though they magically end up with the correct answer. I'm guessing the person who did it copy and pasted a lot and didn't review the text carefully.

It has the same content as the 5th (Previous Edition) and maybe even 4th ed. Few new problems or modifications to the problems sets and renumbering the problems sets are the only dominant changes that I could see.Almost all the contents of the paragraphs are Identical. Most theorems (in ELEMENTARY number theory) have not changed since the time Euler or Gauss postulated and proved them. The more Advanced-level number theory and new complex algorithms discoveries were pretty much settled by the 90s.Although this book will seem to be an advanced math book for most people, it is still an Elementary number theory book(just like the author said in the preface).Few new things which you could get from this new edition e.g. are 3 or 4 of the newest Mersenne primes (which I believe serves very little to no use to your study).There has not been a lot of important new discoveries in the field of number theory that I know of, apart from the new polynomial time AKS Primality Test from the "Primes in P" paper by Agrawal, Kayal and Saxena in 2002. And this is not really covered (only told in 1/2 page informational paragraph).Although the content is pretty good and complete. The presentation of the content is poor compared to books like

James Stewart's Calculus texts. Often proofs are packed in one paragraph, with NO line breaks between new Statements. This makes it harder to read clearly and follow. I often rewrite the proof myself on a piece of paper. And for a ~$100 book, it is printed in 100% black, I just think that the use of color may help visually present the contents or proofs.I don't see the point of this 6th edition.If this were the 5th edition I still would only give fair 3 stars, even though this might be the best book to go for elementary number theory (currently that I know of)- Because of the presentations that could have been improved in its each editions.. which almost none.

This book has a great way of presenting Number Theory, and it has a broad scope of problems to be worked.