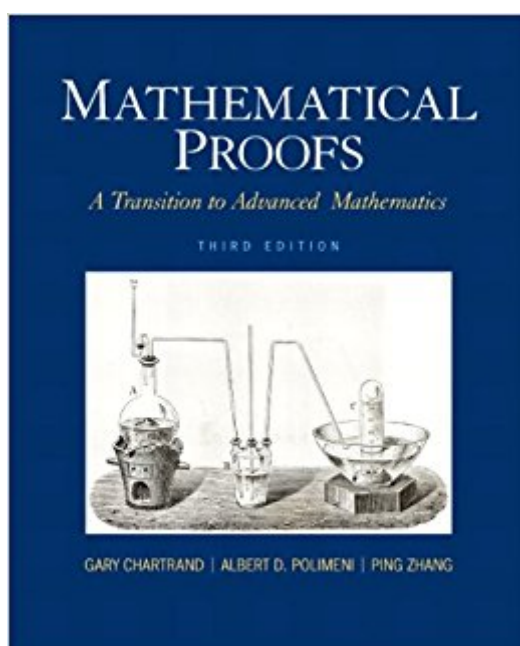The book was found

Mathematical Proofs: A Transition To Advanced Mathematics (3rd Edition) (Featured Titles For Transition To Advanced Mathematics)

Synopsis

Mathematical Proofs: A Transition to Advanced Mathematics, Third Edition, prepares students for the more abstract mathematics courses that follow calculus. Appropriate for self-study or for use in the classroom, this text introduces students to proof techniques, analyzing proofs, and writing proofs of their own. Written in a clear, conversational style, this book provides a solid introduction to such topics as relations, functions, and cardinalities of sets, as well as the theoretical aspects of fields such as number theory, abstract algebra, and group theory. It is also a great reference text that students can look back to when writing or reading proofs in their more advanced courses.

Book Information

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Customer Reviews

Gary Chartrand is Professor Emeritus of Mathematics at Western Michigan University. He received his Ph.D. in mathematics from Michigan State University. His research is in the area of graph theory. Professor Chartrand has authored or co-authored more than 275 research papers and a number of textbooks in discrete mathematics and graph theory as well as the textbook on mathematical proofs. He has given over 100 lectures at regional, national and international conferences and has been a co-director of many conferences. He has supervised 22 doctoral students and numerous undergraduate research projects and has taught a wide range of subjects in undergraduate and graduate mathematics. He is the recipient of the University Distinguished Faculty Scholar Award and the Alumni Association Teaching Award from Western Michigan University and the Distinguished Faculty Award from the State of Michigan. He was the first

managing editor of the Journal of Graph Theory. He is a member of the Institute of Combinatorics and Its Applications, the American Mathematical Society, the Mathematical Association of America and the editorial boards of the Journal of Graph Theory and Discrete Mathematics. Albert D. Polimeni is an Emeritus Professor of Mathematics at the State University of New York at Fredonia. He received his Ph.D. degree in mathematics from Michigan State University. During his tenure at Fredonia he taught a full range of undergraduate courses in mathematics and graduate mathematics. In addition to the textbook on mathematical proofs, he co-authored a textbook in discrete mathematics. His research interests are in the area of finite group theory and graph theory, having published several papers in both areas. He has given addresses in mathematics to regional, national and international conferences. He served as chairperson of the Department of Mathematics for nine years. Ping Zhang is Professor of Mathematics at Western Michigan University. She received her Ph.D. in mathematics from Michigan State University. Her research is in the area of graph theory and algebraic combinatorics. Professor Zhang has authored or co-authored more than 200 research papers and four textbooks in discrete mathematics and graph theory as well as the textbook on mathematical proofs. She serves as an editor for a series of books on special topics in mathematics. She has supervised 7 doctoral students and has taught a wide variety of undergraduate and graduate mathematics courses including courses on introduction to research. She has given over 60 lectures at regional, national and international conferences. She is a council member of the Institute of Combinatorics and Its Applications and a member of the American Mathematical Society and the Association of Women in Mathematics.

This is a great tool that every math major should own. This helped me through my advance calculus class in college. I think this would also be a great buy for a high school student that wants to get ahead of the game.

Very insightful and provides a practical foundation for learning how to write proofs

This is the best proof book by far.The other books I tried areMathematical Thinking: Problem-Solving and Proofs (2nd Edition)How to Prove It: A Structured Approach, 2nd EditionThis book is much better than the other two book.The nice thing about the book is that the chapter is organized by method of proof (direct, contradiction, induction, ...).This really helps to improve each proof method, instead of using only one method you are familiar over and over.

Excellent book...and excellent service

I needed this book quickly for a summer class. It arrived quickly and in perfect condition (exactly as described by the seller). I will definitely keep this long past the end of this course.It is a great introduction to logic mathematical proofs. It is easy to read and follow, and I'm sure will be invaluable to me as I progress through my academic career.

Wasn't thinking this topic would be one I would be interested in however, turns out to be a unique way of thinking and I am starting to like it.

This text begins with a really concise and thorough discussion of set theory that I found riveting.

Excellent text on proofs. Though I've only skimmed through three books on the same subject, this was my favorite. Many helpful examples were given. Provided a great foundation for future math courses.

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