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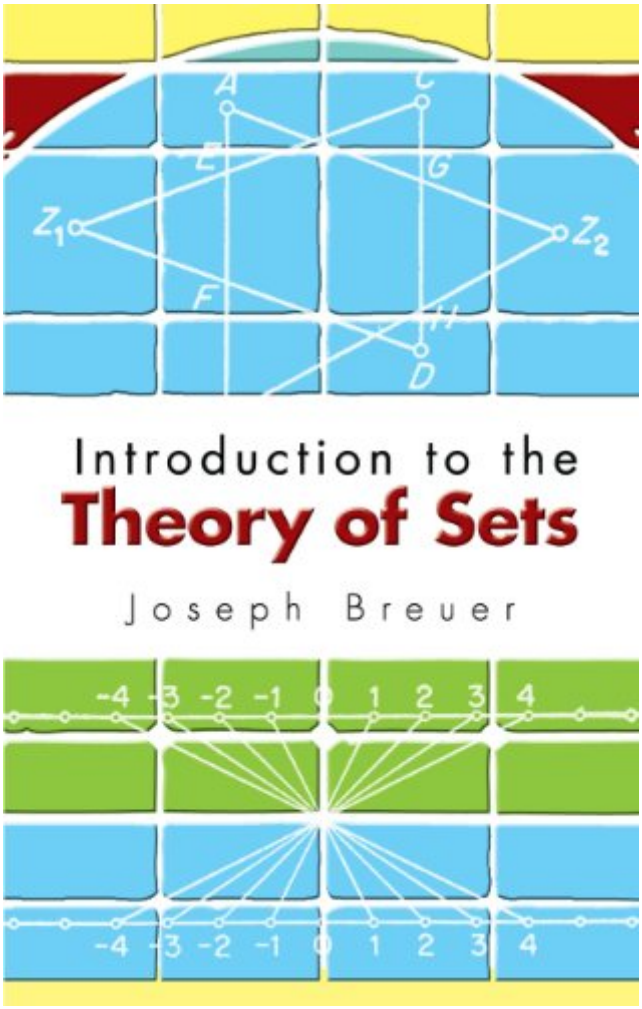
Introduction To The Theory Of Sets (Dover Books On Mathematics)



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Synopsis

Set theory permeates much of contemporary mathematical thought. This text for undergraduates offers a natural introduction, developing the subject through observations of the physical world. Its progressive development leads from concrete finite sets to cardinal numbers, infinite cardinals, and ordinals.Although set theory begins in the intuitive and the concrete, it ascends to a very high degree of abstraction. All that is necessary to its grasp, declares author Joseph Breuer, is patience. Breuer illustrates the grounding of finite sets in arithmetic, permutations, and combinations, which provides the terminology and symbolism for further study. Discussions of general theory lead to a study of ordered sets, concluding with a look at the paradoxes of set theory and the nature of formalism and intuitionalism. Answers to exercises incorporated throughout the text appear at the end, along with an appendix featuring glossaries and other helpful information.

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Customer Reviews

I’ve read several books on real analysis which left me wondering about any number of issues this book finally clarified. Moreover, it has put into sharper perspective for me than any other the controversy concerning the axiom of choice and the differences between formalism and intuitionism.

I've never before written a review for , but I felt obligated to highlight the singular clarity of this book.

I got a lot out of this book even though some of it was above my head. Some of the ideas were really interesting, explained well, etc. They need to update the font used in this book and maybe update the examples. It has an older feel that you have to get past.

I don't know if it was the book or the fact that set theory is so kick-ass cool?My brain fell in love w sets and permutations.So I have to give credit to the book,I guess.It is a very short book and dense.You have to take the time to go over every chapter,if not every page,to make sure you are getting it.But,I was a complete novice to set theory.More advanced readers may breeze through it.

This book is too advance, so people who already know about this subject will feel that this is the right book to learn more about this subject. But people who want to teach themselves set theory, my advice is to start reading some basic concepts...It is difficult to find a book which explain set theory in a simple way. Set Theory by Martha Pieper cover some basic concept of set theory.

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