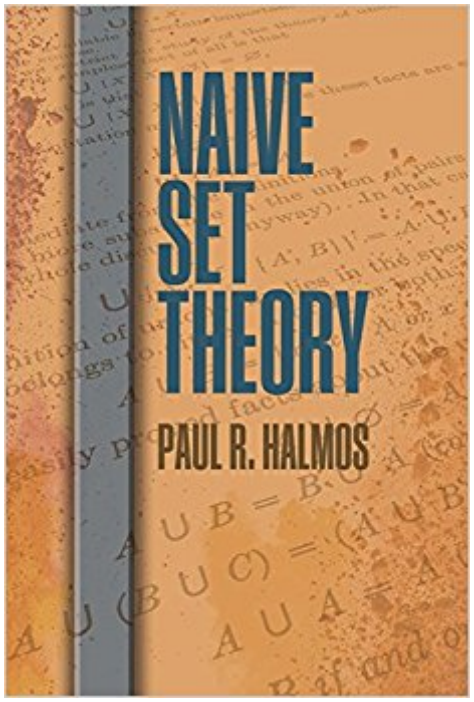
Naive Set Theory (Dover Books On Mathematics)



Synopsis

This classic by one of the twentieth century’s most prominent mathematicians offers a concise introduction to set theory. Suitable for advanced undergraduates and graduate students in mathematics, it employs the language and notation of informal mathematics. There are very few displayed theorems; most of the facts are stated in simple terms, followed by a sketch of the proof. Only a few exercises are designated as such since the book itself is an ongoing series of exercises with hints. The treatment covers the basic concepts of set theory, cardinal numbers, transfinite methods, and a good deal more inÃ Â 25 brief chapters."This book is a very specialized but broadly useful introduction to set theory. It is aimed at ’the beginning student of advanced mathematics’ Ã¢â ¬Â¦ who wants to understand the set-theoretic underpinnings of the mathematics he already knows or will learn soon. It is also useful to the professional mathematician who knew these underpinnings at one time but has now forgotten exactly how they go. Ã¢â ¬Â¦ A good reference for how set theory is used in other parts of mathematics." Ã¢â ¬â • Allen Stenger, The Mathematical Association of America, September 2011.

Book Information

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Customer Reviews

From the reviews:Ã¢â ¬Å“This book is a very specialized but broadly useful introduction to set theory. It is aimed at Ã¢â ¬Ëœthe beginning student of advanced mathematicsÃ¢â ¬â„¢ Ã¢â ¬Â¦ who wants to understand the set-theoretic underpinnings of the mathematics he already knows or will learn soon. It is also useful to the professional mathematician who knew these underpinnings at

one time but has now forgotten exactly how they go. Ã¢â ¬Â¦ A good reference for how set theory is used in other parts of mathematics Ã¢â ¬Â¦.Ã¢â ¬Â• (Allen Stenger, The Mathematical Association of America, September, 2011) --This text refers to an alternate Paperback edition.

Hungarian-born Paul R. Halmos (1916Ã¢â ¬â œ2006) is widely regarded as a top-notch expositor of mathematics. He taught at the University of Chicago and the University of Michigan as well as other universities and made significant contributions to several areas of mathematics including mathematical logic, probability theory, ergodic theory, and functional analysis.

It is a compressed book written on set theory. This is especially correct about the final chapters where it gets very hard to read and you may need to read every paragraph a couple of times to understand and decode. This made me read some parts of the book by Karl Hrbacek and Thomas Jech. Yet, I recommend this book to everyone who wants to learn set theory in depth.

I find set theory to be the most intimidating subject in math. It seems so removed, but underpins every assumption I make in mathematics. Many other set theory books are dense and not very clear, but Halmos clearly expounds set theory.Set theory, as is most mathematics, is hard, so be prepared to think. This book has only 102 pages in it and has just about everything I ever needed to know about set theory for me to feel confident using this theory to understand and prove things in other branches of mathematics.Halmos's Naive Set Theory is the type of book I look for most, when I'm interested in a topic outside my specialization, but would like to know it better to apply it to my research. It's a clear, concise introduction to set theory, getting to the meat of it, without all the little asides and interesting things that distracts from learning the core of the subject.This book should be on the bookshelf of every serious (and amateur) mathematician.

Paul Halmos's book is the best introductory text to set theory. Halmos is very skilled at presenting complicated ideas in terms that anyone can understand and enjoy. Naive Set Theory is written in informal, conversational English, although the material is presented in a systematic and rigorous way. For its quality of exposition and coverage, this is the best place to start learning about set theory. After working your way through this book you'll be prepared to read more advanced and equality good texts such as Jech's Intro to Set Theory.

It's very good.

GREAT REFRESHER

This is a GREAT book on set theory. Very readable.A recent job change required me to come up to speed on set theory ASAP (strange I know, but bang around in the industry long enough and you'll be amazed at the stuff you have to learn,) and this book was recommended. Naive Set Theory hits the ball out of the park.

Very short, very good intro to set theory. Concise and complete.Not a theorem and proof book (hooray!) but a readable introduction to the subject with clear explanations.

For those of us who missed out on the Set Theory craze of 'Modern Math', this is a great introduction to the subject.