



The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics)

John Stillwell

Download now

[Click here](#) if your download doesn't start automatically

The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics)

John Stillwell

The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) John Stillwell

While most texts on real analysis are content to assume the real numbers, or to treat them only briefly, this text makes a serious study of the real number system and the issues it brings to light. Analysis needs the real numbers to model the line, and to support the concepts of continuity and measure. But these seemingly simple requirements lead to deep issues of set theory—uncountability, the axiom of choice, and large cardinals. In fact, virtually all the concepts of infinite set theory are needed for a proper understanding of the real numbers, and hence of analysis itself.

By focusing on the set-theoretic aspects of analysis, this text makes the best of two worlds: it combines a down-to-earth introduction to set theory with an exposition of the essence of analysis—the study of infinite processes on the real numbers. It is intended for senior undergraduates, but it will also be attractive to graduate students and professional mathematicians who, until now, have been content to "assume" the real numbers. Its prerequisites are calculus and basic mathematics.

Mathematical history is woven into the text, explaining how the concepts of real number and infinity developed to meet the needs of analysis from ancient times to the late twentieth century. This rich presentation of history, along with a background of proofs, examples, exercises, and explanatory remarks, will help motivate the reader. The material covered includes classic topics from both set theory and real analysis courses, such as countable and uncountable sets, countable ordinals, the continuum problem, the Cantor–Schröder–Bernstein theorem, continuous functions, uniform convergence, Zorn's lemma, Borel sets, Baire functions, Lebesgue measure, and Riemann integrable functions.

 [Download The Real Numbers: An Introduction to Set Theory an ...pdf](#)

 [Read Online The Real Numbers: An Introduction to Set Theory ...pdf](#)

Download and Read Free Online The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) John Stillwell

From reader reviews:

Marla Mestas:

In this period of time globalization it is important to someone to obtain information. The information will make professionals understand the condition of the world. The condition of the world makes the information easier to share. You can find a lot of recommendations to get information example: internet, newspapers, book, and soon. You can observe that now, a lot of publisher that print many kinds of book. The particular book that recommended for your requirements is The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) this guide consist a lot of the information with the condition of this world now. This particular book was represented how does the world has grown up. The terminology styles that writer make usage of to explain it is easy to understand. The actual writer made some investigation when he makes this book. That's why this book suited all of you.

Kurtis Henry:

Don't be worry if you are afraid that this book will filled the space in your house, you might have it in e-book way, more simple and reachable. That The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) can give you a lot of buddies because by you looking at this one book you have matter that they don't and make anyone more like an interesting person. This kind of book can be one of one step for you to get success. This publication offer you information that perhaps your friend doesn't realize, by knowing more than additional make you to be great men and women. So , why hesitate? Let's have The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics).

Herman Hernandez:

As we know that book is essential thing to add our expertise for everything. By a e-book we can know everything we wish. A book is a range of written, printed, illustrated or perhaps blank sheet. Every year has been exactly added. This publication The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) was filled with regards to science. Spend your time to add your knowledge about your scientific research competence. Some people has several feel when they reading any book. If you know how big good thing about a book, you can sense enjoy to read a e-book. In the modern era like right now, many ways to get book that you just wanted.

Darren Reid:

E-book is one of source of know-how. We can add our knowledge from it. Not only for students but additionally native or citizen will need book to know the up-date information of year to year. As we know those guides have many advantages. Beside many of us add our knowledge, also can bring us to around the world. Through the book The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) we can consider more advantage. Don't that you be creative people? To be creative

person must love to read a book. Just simply choose the best book that ideal with your aim. Don't be doubt to change your life by this book *The Real Numbers: An Introduction to Set Theory and Analysis* (Undergraduate Texts in Mathematics). You can more inviting than now.

Download and Read Online *The Real Numbers: An Introduction to Set Theory and Analysis* (Undergraduate Texts in Mathematics)

John Stillwell #VS5DI7HG08N

Read The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) by John Stillwell for online ebook

The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) by John Stillwell Free PDF download, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) by John Stillwell books to read online.

Online The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) by John Stillwell ebook PDF download

The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) by John Stillwell Doc

The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) by John Stillwell Mobipocket

The Real Numbers: An Introduction to Set Theory and Analysis (Undergraduate Texts in Mathematics) by John Stillwell EPub