



A Basic Course in Real Analysis

By Ajit Kumar, S. Kumaresan

Download now

Read Online 

A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan

Based on the authors' combined 35 years of experience in teaching, **A Basic Course in Real Analysis** introduces students to the aspects of real analysis in a friendly way. The authors offer insights into the way a typical mathematician works observing patterns, conducting experiments by means of looking at or creating examples, trying to understand the underlying principles, and coming up with guesses or conjectures and then proving them rigorously based on his or her explorations.

With more than 100 pictures, the book creates interest in real analysis by encouraging students to think geometrically. Each difficult proof is prefaced by a strategy and explanation of how the strategy is translated into rigorous and precise proofs. The authors then explain the mystery and role of inequalities in analysis to train students to arrive at estimates that will be useful for proofs. They highlight the role of the least upper bound property of real numbers, which underlies all crucial results in real analysis. In addition, the book demonstrates analysis as a qualitative as well as quantitative study of functions, exposing students to arguments that fall under hard analysis.

Although there are many books available on this subject, students often find it difficult to learn the essence of analysis on their own or after going through a course on real analysis. Written in a conversational tone, this book explains the hows and whys of real analysis and provides guidance that makes readers think at every stage.

 [Download A Basic Course in Real Analysis ...pdf](#)

 [Read Online A Basic Course in Real Analysis ...pdf](#)

A Basic Course in Real Analysis

By Ajit Kumar, S. Kumaresan

A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan

Based on the authors' combined 35 years of experience in teaching, **A Basic Course in Real Analysis** introduces students to the aspects of real analysis in a friendly way. The authors offer insights into the way a typical mathematician works observing patterns, conducting experiments by means of looking at or creating examples, trying to understand the underlying principles, and coming up with guesses or conjectures and then proving them rigorously based on his or her explorations.

With more than 100 pictures, the book creates interest in real analysis by encouraging students to think geometrically. Each difficult proof is prefaced by a strategy and explanation of how the strategy is translated into rigorous and precise proofs. The authors then explain the mystery and role of inequalities in analysis to train students to arrive at estimates that will be useful for proofs. They highlight the role of the least upper bound property of real numbers, which underlies all crucial results in real analysis. In addition, the book demonstrates analysis as a qualitative as well as quantitative study of functions, exposing students to arguments that fall under hard analysis.

Although there are many books available on this subject, students often find it difficult to learn the essence of analysis on their own or after going through a course on real analysis. Written in a conversational tone, this book explains the hows and whys of real analysis and provides guidance that makes readers think at every stage.

A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan Bibliography

- Sales Rank: #3283524 in Books
- Brand: Brand: Chapman and Hall/CRC
- Published on: 2014-01-10
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .75" w x 6.14" l, 1.15 pounds
- Binding: Hardcover
- 322 pages

 [Download A Basic Course in Real Analysis ...pdf](#)

 [Read Online A Basic Course in Real Analysis ...pdf](#)

Editorial Review

Review

"... there are some unique features that put this book aside. ... a welcome addition to the library of teachers and student alike."

?*Zentralblatt MATH* 1308

"... this book describes the basic results of analysis in an extremely clear, straightforward, and well-motivated way. ... if you're looking for a text on the easy end of the spectrum for a course in real analysis, then this book is certainly worth a serious look ..."

?*MAA Reviews*, October 2014

Users Review

From reader reviews:

Ginger Knowles:

Nowadays reading books become more than want or need but also work as a life style. This reading addiction give you lot of advantages. Associate programs you got of course the knowledge the actual information inside the book that improve your knowledge and information. The knowledge you get based on what kind of e-book you read, if you want send more knowledge just go with schooling books but if you want experience happy read one having theme for entertaining like comic or novel. The particular A Basic Course in Real Analysis is kind of reserve which is giving the reader unpredictable experience.

John Jones:

A Basic Course in Real Analysis can be one of your nice books that are good idea. All of us recommend that straight away because this reserve has good vocabulary that can increase your knowledge in words, easy to understand, bit entertaining however delivering the information. The article author giving his/her effort to get every word into joy arrangement in writing A Basic Course in Real Analysis nevertheless doesn't forget the main place, giving the reader the hottest as well as based confirm resource details that maybe you can be certainly one of it. This great information can certainly drawn you into fresh stage of crucial pondering.

Raymond Floyd:

Do you one of the book lovers? If so, do you ever feeling doubt if you find yourself in the book store? Attempt to pick one book that you just dont know the inside because don't determine book by its protect may doesn't work is difficult job because you are frightened that the inside maybe not since fantastic as in the outside appear likes. Maybe you answer may be A Basic Course in Real Analysis why because the fantastic cover that make you consider in regards to the content will not disappoint anyone. The inside or content is fantastic as the outside or perhaps cover. Your reading 6th sense will directly direct you to pick up this book.

Ann Walsh:

The book untitled A Basic Course in Real Analysis contain a lot of information on this. The writer explains her idea with easy technique. The language is very simple to implement all the people, so do not really worry, you can easy to read the idea. The book was published by famous author. The author gives you in the new period of time of literary works. It is easy to read this book because you can continue reading your smart phone, or gadget, so you can read the book throughout anywhere and anytime. If you want to buy the e-book, you can wide open their official web-site in addition to order it. Have a nice go through.

Download and Read Online A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan #56BET91OXDC

Read A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan for online ebook

A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan Free PDF d0wnl0ad, 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 A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan books to read online.

Online A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan ebook PDF download

A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan Doc

A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan Mobipocket

A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan EPub

56BET91OXDC: A Basic Course in Real Analysis By Ajit Kumar, S. Kumaresan