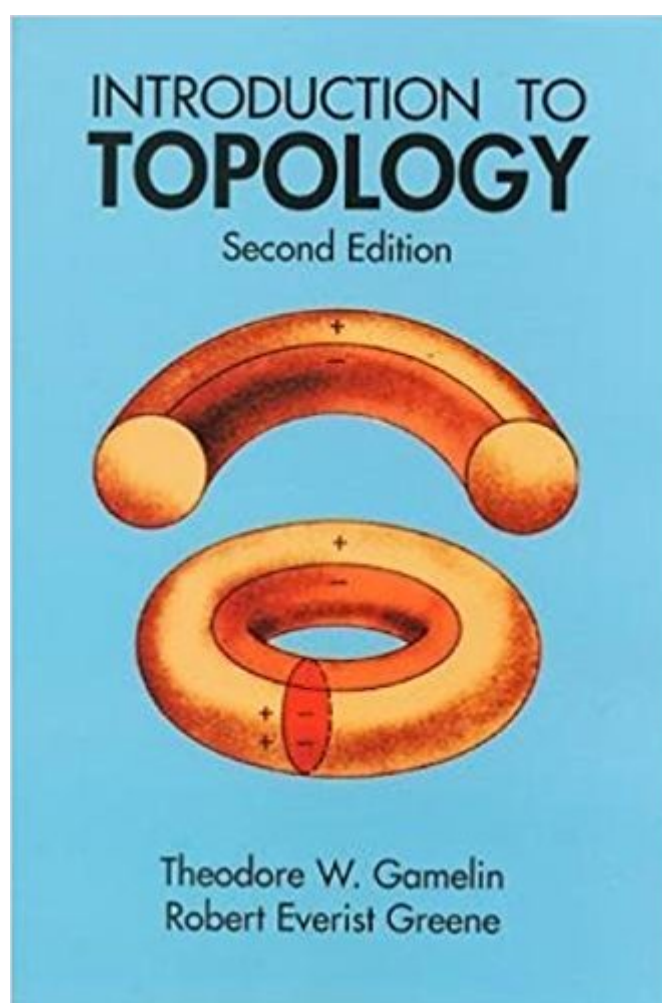


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Introduction To Topology: Second Edition (Dover Books On Mathematics)



Synopsis

One of the most important milestones in mathematics in the twentieth century was the development of topology as an independent field of study and the subsequent systematic application of topological ideas to other fields of mathematics. While there are many other works on introductory topology, this volume employs a methodology somewhat different from other texts. Metric space and point-set topology material is treated in the first two chapters; algebraic topological material in the remaining two. The authors lead readers through a number of nontrivial applications of metric space topology to analysis, clearly establishing the relevance of topology to analysis. Second, the treatment of topics from elementary algebraic topology concentrates on results with concrete geometric meaning and presents relatively little algebraic formalism; at the same time, this treatment provides proof of some highly nontrivial results. By presenting homotopy theory without considering homology theory, important applications become immediately evident without the necessity of a large formal program. Prerequisites are familiarity with real numbers and some basic set theory. Carefully chosen exercises are integrated into the text (the authors have provided solutions to selected exercises for the Dover edition), while a list of notations and bibliographical references appear at the end of the book.

Book Information

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Customer Reviews

This book is a solid introduction to topology for the price. For anyone wanting to go further in the field I'd recommend learning from Munkres' Topology book, but Gamelin is great for reference and

for people learning the material on their own.

I really wish it had examples to do along the way to supplement the definitions and theorems. On the other hand, the proofs are relatively easy to follow.

Awesome book. Very well written!

I highly recommend this book as a supplement to another topology text since it has a lot of hints and answers. Students may not learn very from it because they may just copy the answers in the back of the text. It is a great book though.

It contains a lot of exercises. Many of them are very hard. The good thing is it has hints at the end of the book.

Good

This text has a thorough introduction to topology, especially as it is related to analysis. With several exercises (complete with solutions for the Dover edition), this text provides good practice and forces the reader to work out some of the main ideas. However, as stated in the book's preface it is lacking in examples. Even with the plethora of exercises, the lack of examples in the text makes the book quite dense. The book essentially becomes theorem, proof, theorem, proof etc. without reprieve which becomes difficult to read after not too long. I am planning to use this book along with Munkres' which I checked out from the library. It seems like this combination should be helpful.

Introduction to Topology by Gamelin is a great book for starters. There are a considerable number of exercises with answer suggestions and most part of the material in the book is self contain. Thus, Introduction to Topology is a reference for those who are familiarising with this subject.

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