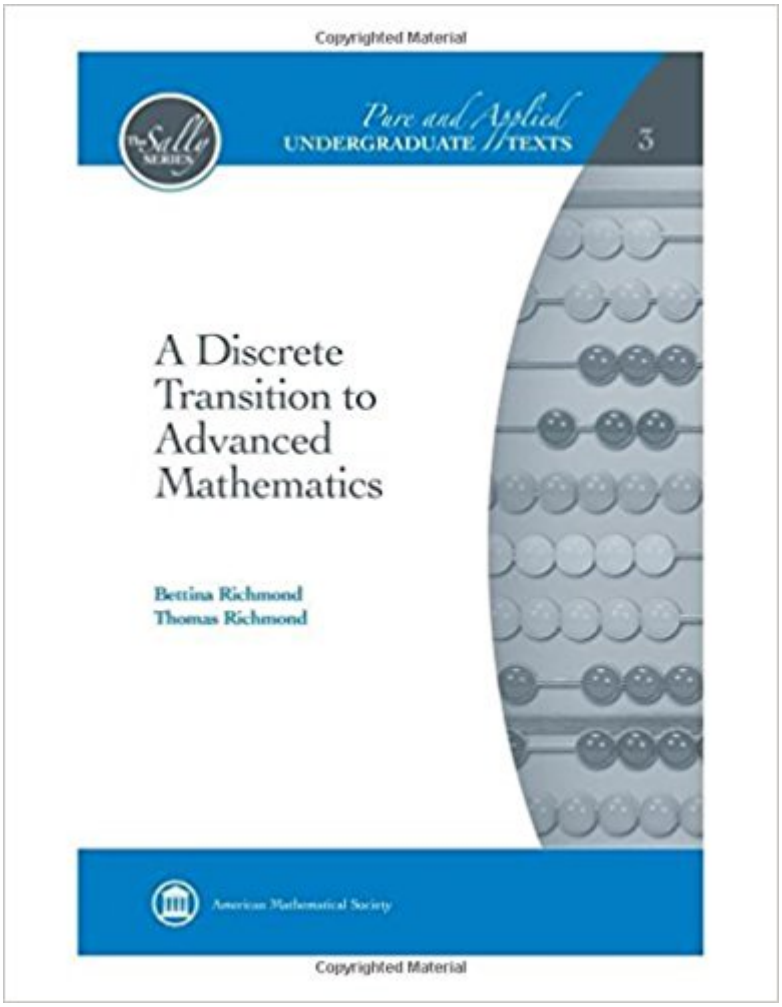
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A Discrete Transition To Advanced Mathematics (Pure And Applied Undergraduate Texts)



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Synopsis

As the title indicates, this book is intended for courses aimed at bridging the gap between lower-level mathematics and advanced mathematics. The text provides a careful introduction to techniques for writing proofs and a logical development of topics based on intuitive understanding of concepts. The authors utilize a clear writing style and a wealth of examples to develop an understanding of discrete mathematics and critical thinking skills. While including many traditional topics, the text offers innovative material throughout. Surprising results are used to motivate the reader. The last three chapters address topics such as continued fractions, infinite arithmetic, and the interplay among Fibonacci numbers, Pascal's triangle, and the golden ratio, and may be used for independent reading assignments. The treatment of sequences may be used to introduce epsilon-delta proofs. The selection of topics provides flexibility for the instructor in a course designed to spark the interest of students through exciting material while preparing them for subsequent proof-based courses. The book includes a large number of problems of varying difficulty. A student manual with solutions to selected problems is available. For more information regarding the student manual, please contact AMS Member and Customer Services at cust-serv@ams.org. An instructor's manual with complete solutions to all the problems as well as supplementary material is available to teachers using the book as the text for the class. To receive it, send e-mail to textbooks@ams.org.

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Customer Reviews

This nice text is a welcome addition to existing literature on discrete mathematics, mathematical reasoning and proofs, and similar topics. --Zentralblatt MATH

Bettina Richmond is Professor of Mathematics at Western Kentucky University.

The book came and the price was great; however, I don’t consider a book coming apart from the spine in "good" condition.

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