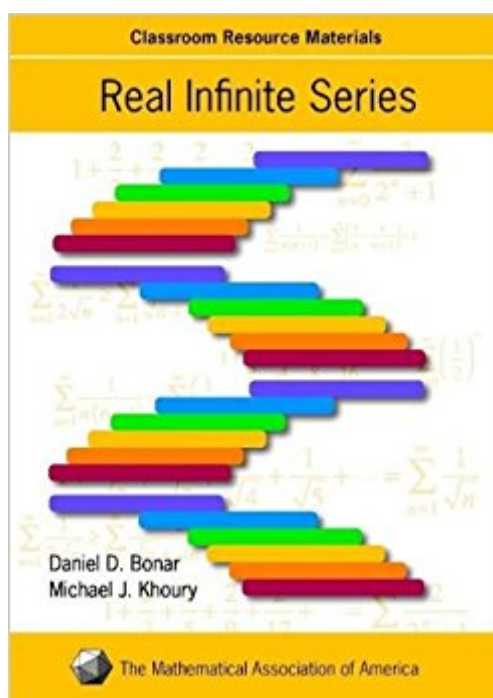


The book was found

# Real Infinite Series (Classroom Resource Material) (Mathematical Association Of America Textbooks)



## Synopsis

This is a widely accessible introductory treatment of infinite series of real numbers, bringing the reader from basic definitions and tests to advanced results. An up-to-date presentation is given, making infinite series accessible, interesting, and useful to a wide audience, including students, teachers, and researchers. Included are elementary and advanced tests for convergence or divergence, the harmonic series, the alternating harmonic series, and closely related results. One chapter offers 107 concise, crisp, surprising results about infinite series. Another gives problems on infinite series, and solutions, which have appeared on the annual William Lowell Putnam Mathematical Competition. The lighter side of infinite series is treated in the concluding chapter where three puzzles, eighteen visuals, and several fallacious proofs are made available. Three appendices provide a listing of true or false statements, answers to why the harmonic series is so named, and an extensive list of published works on infinite series.

## Book Information

Series: Mathematical Association of America Textbooks

Hardcover: 274 pages

Publisher: The Mathematical Association of America; 1 edition (January 20, 2006)

Language: English

ISBN-10: 0883857456

ISBN-13: 978-0883857458

Product Dimensions: 7 x 0.8 x 10 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #1,448,188 in Books (See Top 100 in Books) #94 in [Books > Science & Math > Mathematics > Infinity](#) #1186 in [Books > Science & Math > Mathematics > Mathematical Analysis](#) #1587 in [Books > Science & Math > Mathematics > Geometry & Topology](#)

## Customer Reviews

'One chapter offers 107 concise, crisp, surprising results about infinite series. Recognizing the interest in problem solving that abounds with students of mathematics, the authors devote a chapter to problems of infinite series, and solutions ...' *L'enseignement mathématique*

This is a widely accessible introductory treatment of infinite series of real numbers, bringing the

reader from basic definitions and tests to advanced results. An up-to-date presentation is given, making infinite series accessible, interesting, and useful to a wide audience, including students, teachers, and researchers.

Lots of good information, and you can jump around in it as well. You don't have to start from the beginning, which is what I like I jumped right into Harmonic series in chapter 3. Then I moved onto chapter 4 randomly skipping through the gems. There's also an entire section of Putnam problems, which was nice when I was training for the Putnam. If I had worked through this section more thoroughly, I would have gotten one or two more problems on the 2010 exam lol. Anyways. Have fun with this book!

This is an excellent book. The prose is very readable and there are numerous illustrative examples to clarify the main points. Chapter 1 defines infinite series, discusses intuition and infinity, and covers the basic convergence tests. Chapter 2 covers the work of Cauchy and discusses more involved tests of convergence such as Kummer's results, the tests of Raabe and Gauss, and the tests of Abel. Chapter 3 examines the harmonic series. Chapter 4 covers a number of interesting results involving infinite series. Chapter 5 presents 101 problems involving infinite series from the Putnam Mathematical Competition. Answers to all problems are provided. Chapter 6 presents a plethora of puzzles, proofs without words, fallacious proofs, and fallacies, flaws, and flimflam. Answers to the puzzles are given. Two appendices present 101 True or False questions on infinite series with answers and a brief article on harmonic series. References, both books and journals, are also given. A brief but thorough index concludes the book. This book would serve very well as a resource for high school and college calculus teachers. Undergraduate mathematics majors with an interest in infinite series would find it appealing. Finally, readers like myself who majored in mathematics but pursued other careers would enjoy using it to refresh their knowledge of infinite series. (they may need to review a little calculus). The authors have produced a gem of a book and anyone who has a passion for mathematics will enjoy reading this volume. Chapters 1 and 6 are especially readable, informative, and enjoyable. Chapter 6 is just plain fun! Get your hands on a copy of this book as it will provide hours of fascinating reading and problem solving.

I am pleased to say that I was one of the first to have this wonderful book. In all honesty - I don't understand anything in this book. I tried to just read chapter 1 - the definitions, and I fell asleep. I tried to read chapter 2 and I got a headache. However, I'm the father of one of the author's and I'm

awfully proud of him! Please buy many copies. Mike Sr.

[Download to continue reading...](#)

Real Infinite Series (Classroom Resource Material) (Mathematical Association of America Textbooks) Number Theory Through Inquiry (Maa Textbooks) (Mathematical Association of America Textbooks) Mathematical Interest Theory (Mathematical Association of America Textbooks) A Course in Mathematical Modeling (Mathematical Association of America Textbooks) Fourier Series (Mathematical Association of America Textbooks) Non-Euclidean Geometry (Mathematical Association of America Textbooks) Thinking Geometrically: A Survey of Geometries (Mathematical Association of America Textbooks) Knot Theory (Mathematical Association of America Textbooks) Cryptological Mathematics (Mathematical Association of America Textbooks) Topology Now! (Classroom Resource Material) Infinite Real Estate ROI: The "Silver Bullet" Method of Real Estate Investing to Control Over \$10 Million Worth of Real Estate With No Ca\$h, No Credit and No Partners The Real Book of Real Estate: Real Experts. Real Stories. Real Life. Hawaii Real Estate Wholesaling Residential Real Estate Investor & Commercial Real Estate Investing: Learn to Buy Real Estate Finance Hawaii Homes & Find Wholesale Real Estate Houses in Hawaii Exploring the Infinite: An Introduction to Proof and Analysis (Textbooks in Mathematics) Fate/Complete Material Volume 2: Character Material Handbook on Material and Energy Balance Calculations in Material Processing, Includes CD-ROM Bath Planning: Guidelines, Codes, Standards (National Kitchen & Bath Association (NKBA) Professional Library Series) (National Kitchen & Bath Association (NKBA) Professional Library Series) The Smart Real Estate Investor: Real Estate Book Bundle 2 Manuscripts Expert Strategies on Real Estate Investing, Starting with Little or No Money, Proven Methods for Investing in Real Estate The Smart Real Estate Investor: Real Estate Book Bundle 3 Manuscripts Expert Strategies on Real Estate Investing, Finding and Generating Leads, Funding, Proven Methods for Investing in Real Estate Real Estate: 25 Best Strategies for Real Estate Investing, Home Buying and Flipping Houses (Real Estate, Real Estate Investing, home buying, flipping houses, ... income, investing, entrepreneurship)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)