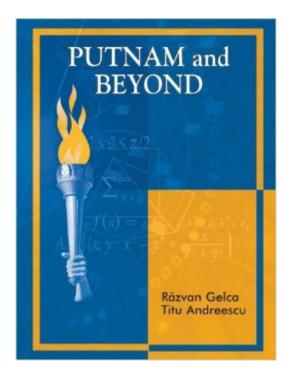
The book was found

# **Putnam And Beyond**





## Synopsis

Putnam and Beyond takes the reader on a journey through the world of college mathematics, focusing on some of the most important concepts and results in the theories of polynomials, linear algebra, real analysis in one and several variables, differential equations, coordinate geometry, trigonometry, elementary number theory, combinatorics, and probability. Using the W.L. Putnam Mathematical Competition for undergraduates as an inspiring symbol to build an appropriate math background for graduate studies in pure or applied mathematics, the reader is eased into transitioning from problem-solving at the high school level to the university and beyond, that is, to mathematical research.

### **Book Information**

Paperback: 798 pages Publisher: Springer; 2007 edition (August 23, 2007) Language: English ISBN-10: 0387257659 ISBN-13: 978-0387257655 Product Dimensions: 7 x 1.8 x 9.4 inches Shipping Weight: 3.6 pounds (View shipping rates and policies) Average Customer Review: 4.2 out of 5 stars Â See all reviews (5 customer reviews) Best Sellers Rank: #500,655 in Books (See Top 100 in Books) #79 in Books > Science & Math > Mathematics > Pure Mathematics > Combinatorics #168 in Books > Science & Math > Mathematics > Pure Mathematics > Number Theory #185 in Books > Science & Math >

#### **Customer Reviews**

There are many books on problem solving. The majority are aimed at junior high and high school students preparing for either the International Mathematical Olympiad or national IMO selection tests (the American Mathematics Contests in the United States, such as the USAMO). A select few, such as Problem Solving through Problems by Loren Larson, are aimed at university students preparing for university competitions. This book, as the title suggests, belongs to this latter category, and it has a particular emphasis on the sorts of problems that occur on the Putnam exams. This book is generally written at a higher level than most other problem solving books. Many problem solving books place a great emphasis on geometry. Just as the Putnam exam generally replaces synthetic geometry with analysis and abstract and linear algebra (although there are exceptions), so

this book replaces the traditional focus on geometry with a focus on analysis and algebra. That said, there is an entire chapter on geometry, but it does not discuss synthetic geometry, instead focusing on vectors, the geometry of the complex plane, analytic geometry, and some special topics that are especially relevant to college mathematics (integrals in geometry, some higher-level results such as the fact that all conics are rational curves, and a brief but still substantive survey of trigonometric substitutions).Putnam and Beyond discusses many areas of college mathematics that are likely to appear on the Putnam exam but would never appear on the IMO, such as abstract algebra, linear algebra, and real analysis (with a very tiny bit of complex analysis).That said, this book still does overlap a bit with many other problem solving books.

#### Download to continue reading...

Putnam and Beyond The William Lowell Putnam Mathematical Competition: Problems and Solutions: 1965-1984 Beyond Ecstasy (Beyond, Book 8) The Garden at the Edge of Beyond (The Beyond Trilogy Book 1) Beyond the Hebrew Lexicon: Learn To Do Hebrew Word Studies That Take You Beyond the Lexicon Finding Meaning in Life, at Midlife and Beyond: Wisdom and Spirit from Logotherapy (Social and Psychological Issues: Challenges and Solutions) Japanese Soul Cooking: Ramen, Tonkatsu, Tempura, and More from the Streets and Kitchens of Tokyo and Beyond Beyond , eBay and Etsy: free and low cost alternative marketplaces, shopping cart solutions and e-commerce storefronts Kindle Fire Owner's Manual: The ultimate Kindle Fire guide to getting started, advanced user tips, and finding unlimited free books, videos and apps on and beyond California Indian Baskets: San Diego to Santa Barbara and Beyond to the San Joaquin Valley, Mountains and Deserts (Indian Baskets of California and Oregon, Vol. II) Distributed Platforms: Proceedings of the IFIP/IEEE International Conference on Distributed Platforms: Client/Server and Beyond: DCE, CORBA, ODP and ... in Information and Communication Technology) Windows 7 Desktop Support and Administration: Real World Skills for MCITP Certification and Beyond (Exams 70-685 and 70-686) Grace and Grit: My Fight for Equal Pay and Fairness at Goodyear and Beyond Beyond Greed and Fear: Understanding Behavioral Finance and the Psychology of Investing (Financial Management Association Survey and Synthesis) Beyond Bethlehem and Calvary: 12 Dramas for Christmas, Easter and More! Beyond Barbie and Mortal Kombat: New Perspectives on Gender and Gaming (MIT Press) Web 2.0 and Beyond: Principles and Technologies (Chapman & Hall/CRC Textbooks in Computing) Blogger: Beyond the Basics: Customize and promote your blog with original templates, analytics, advertising, and SEO (From Technologies to Solutions) The Whole30 Cookbook: 150 Delicious and Totally Compliant Recipes to Help You Succeed with the Whole30 and Beyond Baking Basics and Beyond: Learn These Simple Techniques and Bake Like a Pro

<u>Dmca</u>