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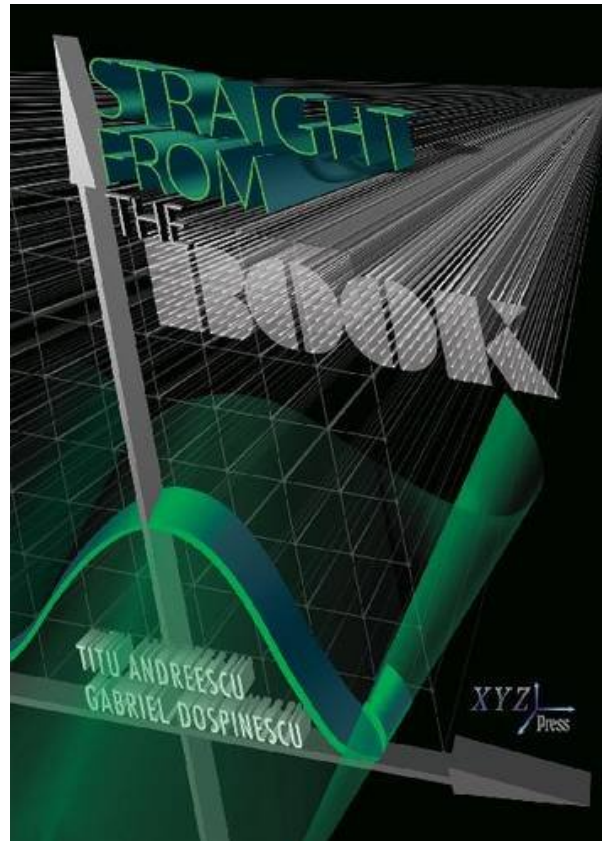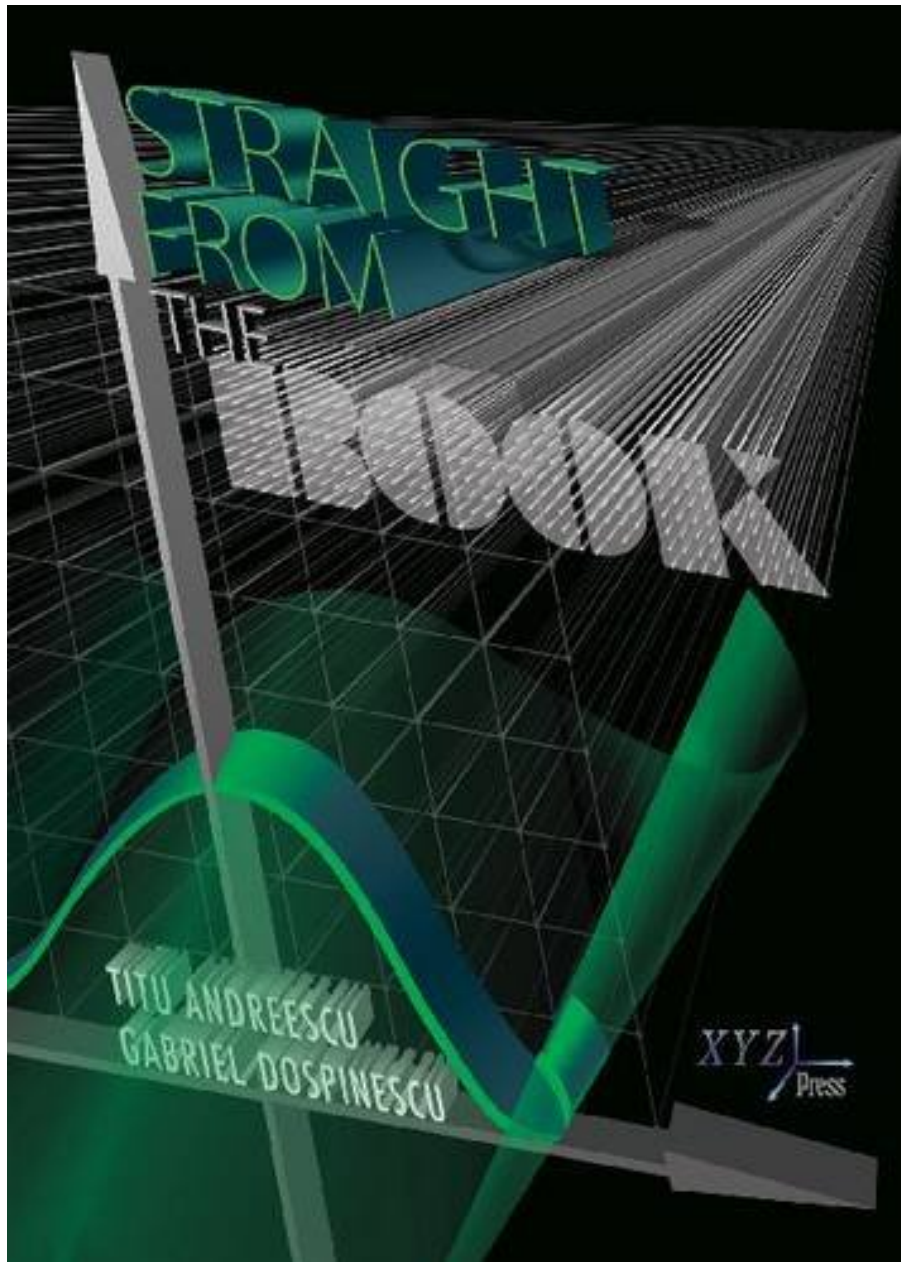

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Review
Accroding to the writers there are two obectives for writing this book: 1) Providing a solution to the problems that orginally proposed on the first 12 chapters of "Problems from the book" and could not be included in the book due to lack of space. 2) Correcting mistakes in the statements of the proposed problems. In order to hear variety of ideas the authors used a well known forum for problem-solving, mathlinks.ro, in which anyone could discuss and contribute to the solution. The final product is one of the finest problem solving book - mostly short and lucid solution which ensures the understanding of the reader. In addition the authors also include in the book 10 addendums, mostly on advanced topics: 1) Cauchy-Schwarz in Number Theory 2) Classical Estimates on Prime Numbers 3) An introduction to p-adic Numbers 4) Holder's Inequality in Action 5) Some Pearls of Extermal Graph Theory 6) Probability in Combinatorics 7) Finite Fourier Analysis 8) Lagrange's Inversion Theorem 9) Equations over Finite Fields 10) A Glimpse of Algebraic Number Theory Each one of these addendums discusses the key theorems (along with their proof) on the subject. --Yair Mulian

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Problem solving evolves over time as techniques and approaches improve. This book contains the solutions to Problems from the Book, and is a necessary component to keep your skill sets current and growing. We've enjoyed pouring over these solutions and expanding our math abilities. --David Cordeiro

About the Author
Dr. Titu Andreescu is an associate professor of mathematics in the Science and Mathematics Education

department at the University of Texas at Dallas (UTD). Much of his career has been devoted to competition math, an efficient medium for teaching creative problem-solving for a wide-range of math topics. With over 30 years of experience teaching, coaching, and mentoring the brightest mathematical minds of our age, Dr. Andreescu's books are essential for every math enthusiast's library. Here are just a few highlights from his distinguished career: -Authored, co-authored, and edited more than 40 math books and publications -Head coach and leader of the USA International Mathematical Olympiad (IMO) for 8 years -Director of the Mathematical Association of American (MAA) American Mathematics -Competitions for 5 years -Has contributed hundreds of problems to various math competitions including up to and including the IMO, -Co-founder of the Purple Comet! Math Meet, the first international team based math competition, -Founder and Director of AwesomeMath, an organization that provides enriching experiences in mathematics to intellectually curious learners.

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This book is a compilation of many suggestions, much advice, and even more hard work. Its main objective is to provide solutions to the problems which were originally proposed in the first 12 chapters of "Problems from the Book". The volume is far more than a collection of solutions. The solutions are used as motivation for the introduction of some very clear expositions of mathematics. And this is modern, current, up-to-the-minute mathematics. This is absolutely state-of-the-art material. Everyone who loves mathematics and mathematical thinking should acquire this book.

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Accroding to the writers there are two obectives for writing this book: 1) Providing a solution to the problems that orginally proposed on the first 12 chapters of "Problems from the book" and could not be included in the book due to lack of space. 2) Correcting mistakes in the statements of the proposed problems. In order to hear variety of ideas the authors used a well known forum for problem-solving, mathlinks.ro, in which anyone could discuss and contribute to the solution. The final product is one of the finest problem solving book - mostly short and lucid solution which ensures the understanding of the reader. In addition the authors also include in the book 10 addendums, mostly on advanced topics: 1) Cauchy-Schwarz in Number Theory 2) Classical Estimates on Prime Numbers 3) An introduction to p-adic Numbers 4) Holder's Inequality in Action 5) Some Pearls of Extermal Graph Theory 6) Probability in Combinatorics 7) Finite Fourier Analysis 8) Lagrange's Inversion Theorem 9) Equations over Finite Fields 10) A Glimpse of Algebraic Number Theory Each one of these addendums discusses the key theorems (along with their proof) on the subject. --Yair Mulian

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Problem solving evolves over time as techniques and approaches improve. This book contains the solutions to Problems from the Book, and is a necessary component to keep your skill sets current and growing. We've

enjoyed pouring over these solutions and expanding our math abilities. --David Cordeiro

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The sequel to "Problems from the book"
By Yair Mulian
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In order to hear variety of ideas the authors used a well known forum for problem-solving, mathlinks.ro, in which anyone could discuss and contribute to the solution. The final product is one of the finest problem solving book - mostly short and lucid solution which ensures the understanding of the reader.

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10) A Glimpse of Algebraic Number Theory
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0 of 0 people found the following review helpful.
Not really a solutions manual
By E Chen
This book does far more than just list the solutions to the PftB problems, even if you throw out the ten wonderfully written addendums. The "solutions" portions have actually been re-arranged so that problems with similar solution ideas are sorted into the same sub-sections (rather than in the order they appear in the exercises) written. That even makes it possible to read this like an independent text. (It also throws off the

problem numbering with respect to the original, but hey, if you just wanted solutions you already had the MathLinks forum.)

Once again, the solutions and addendums are written in the same instructive tone as in PftB ("this is not really what we want to prove, but it shows that we are on the right track", "the miracle is that if this fails, then we can apply T2's lemma...", and so on), where the solutions and their motivations are really explained, rather than just a "proof for the sake of a proof" which is so common in many other math textbooks.

Anyone who enjoyed Problems from the Book would enjoy this book, too. Cannot wait to see something like this come out for the second half of PftB.

2 of 3 people found the following review helpful.
Another Mathematical Pearl
By H. A. Shah Ali
This is another mathematical pearl by Prof. Andreescu and his colleagues.
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I do highly recommend this book and all other books of Prof. Andreescu to all mathematics lovers.

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