



Straight From the Book

By *Titu Andreescu, Gabriel Dospinescu*

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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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Straight From the Book By Titu Andreescu, Gabriel Dospinescu Bibliography

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Editorial Review

Review

According to the writers there are two objectives for writing this book: 1) Providing a solution to the problems that originally 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 Extremal 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

This is another mathematical pearl by Prof. Andreescu and his colleagues. This is a sequel of the book "Problems from the Book" and a part of it contains solutions (sometimes, several various solutions) to the first 12 chapters of "Problems from the Book", but there does also exist much much more: many other interesting topics and the following amazing addendums: 2.A. Cauchy-Schwarz in Number Theory 3.A. Classical Estimates on Prime Numbers 3.B. An Introduction to p-adic Numbers 5.A. Hölder's Inequality in Action 6.A. Some Pearls of Extremal Graph Theory 6.B. Probabilities in Combinatorics 7.A. Finite Fourier Analysis 8.A. Lagrange's Inversion Theorem 9.A. Equations over Finite Fields 9.B. A Glimpse of Algebraic Number Theory I do highly recommend this book and all other books of Prof. Andreescu to all mathematics lovers. --H. A. Shah Ali

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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