

DOWNLOAD PDF CHALLENGING PROBLEMS IN ALGEBRA DOVER BOOKS ON MATHEMATICS

Chapter 1 : The Stanford Mathematics Problem Book: With Hints and Solutions (Dover Books

For Dover he provided, with co-author Charles T. Salkind, something very educational and also fun, two long-lived books of problems: Challenging Problems in Geometry and Challenging Problems in Algebra, both on the Dover list since

Marvin gets off work at random times between 3 and 5 p. His mother lives uptown, his girlfriend downtown. He takes the first subway that comes in either direction and eats dinner with the one he is delivered to. His mother complains that he never comes to see her, but he says she has a chance. He has had dinner with her twice in the last 20 working days. Professor Frederick Mosteller, who teaches statistics at Harvard University, has chosen the problems for originality, general interest, or because they demonstrate valuable techniques. In addition, the problems are graded as to difficulty and many have considerable stature. Indeed, one has "enlivened the research lives of many excellent mathematicians. It starts innocently enough - some simple-sounding problems on socks in drawers, flipping coins, and rolling dice. If you get drawn in deep as I did, you may even wonder what probability really means. But do you know why? One of the dice problems actually recalls the history of the development of probability as a separate mathematical field -- problem 19, involving dice bets that Samuel Pepys asked Isaac Newton to figure out. It gets deep to what one means by "random chord". Those who wish to think about "counting" problems like those involving rolling dice, or pulling balls out of urns will find those here. Those who have an interest in continuous probability will find problems which will interest them. And those old probability pros who ponder the essence of chance will find meat for some productive chewing. There is a great deal of independence between problem so you are never quite sure how tough or easy the next one will be. On the other hand, several of the problems are clearly follow-ons that allow the exploration or expansion of some of the more interesting issues. I passed my PhD qualifier because of this book! By Unpingco on Jun 12, Excellent selection of problems and very explanatory and detailed solutions. This gets to the ideas behind many of the popular methods in probability, like maximum likelihood. The concepts are given centerstage and provide insights on "how to think" about many problems in probability. All of the solutions are well written and easily followed. The reasoning is general enough to allow you to go on and solve related problems. If you have a soft spot for problems in probability, this book is an inexpensive must. Published in Journal of Recreational Mathematics, reprinted with permission. They are chosen to illustrate points or techniques. Many also have a touch of humour. You will learn a lot from this book. Few theorems are mentioned! Fun, cheap, instructive, amusing. Good Distraction By David C Hunt on Jul 10, Even if you are not a big probability fan, you are more than likely to find something enjoyable in this book. Some of the problems are wasy, some are hard, and some are just strange, but it makes for a very entertaining diversion for the mathematically inclined. Probability taken to the next level By Blakeobeans on Dec 31, I enjoy solving probability puzzles. I considered myself to be pretty good- I could solve any problem that the GRE practice exams could throw my way. Until I opened this book. This book takes off where I ended up. The first problem is a variation on the "reach into a bag" probability problem. What is the minimum number of both colored socks? The explanations are thorough but succinct, and will arm you with a new skill set for solving such problems. Challenging, sometimes lacking explanation By Tyler Ferraro on Dec 15, I got this book because I enjoy programming challenges, probability and logical reasoning and wanted to strengthen my math skills. With that said, I struggled right out of the gate with the problems. I understood the problems and was able to solve them on my own but when reading the solution and trying to follow through with the mathematical approach I found myself completely confused. The problems here are really interesting. The problems range from very easy ones to very difficult ones. There are problems on variety of prob topics including continuous prob. Some of the problems are very hard to the point you want to pull your hair out. However, it is definitely the best problems I have seen. Enjoyable By James M. Cargal on Oct 13, There are other books on problems in probability. However, this book has problems that are interesting

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often counterintuitive. They are well written as are the solutions. Much of the book is at the pre-calculus level but the problems are not trivial; neither are they arcane. Many teachers use this book as a source of problems. It is great for all students of probability. This is one amazing book. By Shailesh S Kulkarni on Dec 19, I was compelled to write a review as I found some of the lower-ranked reviews downright condescending. Some of the problems in the book are decidedly simple but with twists that may not be obvious at the outset. In hindsight, the solutions to these make them simple to understand and replicate. But several other problems discussed are difficult enough to be posed on Ph. D qualifiers at class 1 institutions. That is the appeal of the book. Its a great mix. I read some of the tough problems regularly to deepen my understanding of logically working through a solution. For example, I have posed the "tennis" problem to my 10 year old and have worked through the logic with him, which he understood sans any math. This is an excellent book. The puzzles are interesting and the solutions not always very simple. So, it is a lot of fun solving the problems. The selection of problems is great and very explanatory and detailed solutions are provided at the end. The author does a really good job on presenting a comprehensive way of understanding the By Benjamin Evans on Feb 20, It is what it is A book with interesting problems in statistics. The author does a really good job on presenting a comprehensive way of understanding the material. Do keep in mind that it does not contain a lot of pros or real life stories related to each problem. I would consider it more like a book of mathematical puzzles for long flights. A couple you might have heard of, but fun to think about and of course the main advantage to the book are the answers which explain the problems in the back. I think the answers still require some thinking and pondering, but if your thinking of buying the book you likely have enough skill to understand them. It is indeed challenging. By Amazon Customer on Apr 06, Challenging and thought provoking. It took me a while to get what "erewhon" was I ordered it that night based on the other reviews. There are several levels of questions, going from kinda hard to very hard. This book is a good diversion when I have a few minutes to spare at work. Great read, the author provides concise By Siwei Wang on Nov 01, Great read, the author provides concise, beautiful layout for the problems and a lot of hand holding for all the knots and bolts needed to build intuition. This particular edition is in a Paperback format. It was published by Dover Publications and has a total of 96 pages in the book. To buy this book at the lowest price, [Click Here](#).

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Chapter 2 : Challenging Problems in Algebra by Alfred S. Posamentier

Download Book Fifty Challenging Problems In Probability With Solutions Dover Books On Mathematics in PDF format. You can Read Online Fifty Challenging Problems In Probability With Solutions Dover Books On Mathematics here in PDF, EPUB, Mobi or Docx formats.

The Stanford Mathematics Problem Book: It offers high school and college students an excellent mathematics workbook of rigorous problems that will assist in developing and cultivating their logic and probability skills. These 20 sets of intriguing problems test originality and insight rather than routine competence. They involve theorizing and verifying mathematical facts; examining the results of general statements; discovering that highly plausible conjectures can be incorrect; solving sequences of subproblems to reveal theory construction; and recognizing "red herrings," in which obvious relationships among the data prove irrelevant to solutions. Hints for each problem appear in a separate section, and a final section features solutions that outline the appropriate procedures. Ideal for teachers seeking challenging practice math problems for their gifted students, this book will also help students prepare for mathematics, science, and engineering programs. Mathematics buffs of all ages will also find it a source of captivating challenges. I rated the book as "4 stars" because of my reverence for George Polya. Polya was a great teacher and I have read all of his books. Unfortunately, this book does not teach the art of problem solving. It is simply a collection of interesting and challenging mathematics problems, along with solutions. The problems are very good. The difficulty of the problems depends on your level of experience and knowledge. I have a Ph. A novice, or someone who is struggling to learn mathematics, may find the problems to be impossibly difficult. And when you read the solutions, you might feel stupid, because there is little chance that you would have the genius required to invent the solution. The book omits the human exploratory process of how to actually solve a mathematics problem. Most problem books and research papers omit all the pain, suffering, and hard work that goes between the problem statement and the seemingly miraculous solution. This book is a really great collection of problems, but it will NOT teach you how to create, invent, or solve these kinds of problems. This book has none of those things. Challenging, top-notch, and original 5. From to , Stanford University gave high school students a chance to win a scholarship by taking a difficult math test, with just four questions. This book collects those questions, and their answers. The subject matter varies, including algebra, geometry, and trigonometry. Most notably, the questions try to measure not achievement, but aptitude. They require a sound foundation of learning, but also original thinking or a flash of insight. The first question in each set is easiest; a sharp high school student would probably have a reasonable shot at answering it. Then the questions get more difficult. I found it to be a fascinating and enjoyable collection, even when that flash of insight eluded me. Months after I bought it, I still open it occasionally and try a new problem. Not so hot on the Kindle 3. Increasing the font size works for the general text but not for the actual problems. So almost unusable on the Kindle. Ercolino on June 6, This is an interesting little book for anyone who wants to bend their brain up for a little diversion or just for fun. This book is based on a test that was given to high school students to award the best a chance at a scholarship to college. This is the complete battery of problems that was given I think minus one or two years that could not be found to high school students in several schools. Although the problems are "high school level", it is immediately obvious that the level of problems given during this testing was a little more advanced from what is today perceived as high school mathematics. Very enjoyable book for stretching your mind. Worth having but not a book to learn problem solving 4. The Stanford examination started in and ended in All exams are collected in the book; none is missing. The problems appear harder than traditional high school problems for two reasons: Second, the problems are written to check the aptitude of students in mathematics, not if they can carry out routine calculations. Therefore, high school students from countries where the curriculum is rigorous and robust will recognize problems based on the material they have been taught although the problems may not be exactly the ones they have solved as homework. Some of these problems can often be encountered as

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advanced-level problems in such rigorous curricula. Students countries where the system is looser regarding the mathematical curriculum can find these problem quite challenging, unless the students have an interest in mathematics and math competitions. The book is just a collection of problems. It contains hints for those who want to try to solve them on their own. It also contains the solutions for those who do not want to try them or tried and failed to solve them. However, it contains nothing else. No related theory and no methodology. It is a very cheap book and worth having but you should not expect it to serve as a tutorial book that teaches problem-solving techniques. Got this book after working with the Russian method. At least for me, a pencil and paper are necessary for this.

Chapter 3 : Challenging Problems in Algebra

Challenging Problems In Algebra Dover Books On Mathematics Pdf Free Download uploaded by Lucinda Miller on October 22 It is a file download of Challenging Problems In Algebra Dover Books On Mathematics that visitor could be grabbed this with no registration at www.nxgvision.com