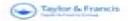


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Problems and Solutions

Daniel H. Ullman, Daniel J. Velleman, Douglas B. West & with the collaboration of Paul Bracken, Ezra A. Brown, Zachary Franco, George Gilbert, László Lipták, Rick Luttmann, Hosam Mahmoud, Frank B. Miles, Lenhard Ng, Rajesh Pereira, Kenneth Stolarsky, Richard Stong, Stan Wagon, Lawrence Washington, and Li Zhou.

To cite this article: Daniel H. Ullman, Daniel J. Velleman, Douglas B. West & with the collaboration of Paul Bracken, Ezra A. Brown, Zachary Franco, George Gilbert, László Lipták, Rick Luttmann, Hosam Mahmoud, Frank B. Miles, Lenhard Ng, Rajesh Pereira, Kenneth Stolarsky, Richard Stong, Stan Wagon, Lawrence Washington, and Li Zhou. (2021) Problems and Solutions, The American Mathematical Monthly, 126:6, 563-571, DOI: 10.1080/00029890.2021.1901495

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Mathematics: Logic, Set Theory, And Probability Richard Kohar, 2016-06-15 This lively introductory text exposes the student in the humanities to the world of discrete mathematics A problem solving based approach grounded in the ideas of George P lya are at the heart of this book Students learn to handle and solve new problems on their own A straightforward clear writing style and well crafted examples with diagrams invite the students to develop into precise and critical thinkers Particular attention has been given to the material that some students find challenging such as proofs This book illustrates how to spot invalid arguments to enumerate possibilities and to construct probabilities It also presents case studies to students about the possible detrimental effects of ignoring these basic principles. The book is invaluable for a discrete and finite mathematics course at the freshman undergraduate level or for self study since there are full solutions to the exercises in an appendix Written with clarity humor and relevant real world examples Basic Discrete Mathematics is a wonderful introduction to discrete mathematical reasoning Arthur Benjamin Professor of Mathematics at Harvey Mudd College and author of The Magic of Math Mathematical Tapas Jean-Baptiste Hiriart-Urruty, 2017-11-24 This textbook presents a collection of interesting and sometimes original exercises for motivated students in mathematics Written in the same spirit as Volume 1 this second volume of Mathematical Tapas includes carefully selected problems at the intersection between undergraduate and graduate level Hints answers and sometimes comments are presented alongside the 222 tapas as well as 8 conjectures or open problems Topics covered include metric normed Banach inner product and Hilbert spaces differential calculus integration matrices convexity and optimization or variational problems Suitable for advanced undergraduate and graduate students in mathematics this book aims to sharpen the reader's mathematical problem solving abilities

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