



**SLICING PIZZAS, RACING TURTLES,
AND FURTHER ADVENTURES IN
APPLIED MATHEMATICS**

ROBERT B. BANKS

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Slicing Pizzas Racing Turtles And Further Adventures In Applied Mathematics

Rajeev Bansal



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Slicing Pizzas, Racing Turtles, and Further Adventures in Applied Mathematics Robert Banks, 2012-07-22 Paperback reissue 2012 original copyright 1999 Slicing Pizzas, Racing Turtles, and Further Adventures in Applied Mathematics Robert B. Banks, 2012-05-02 Banks turns trivial questions into mind expanding demonstrations of the magical powers of mathematics generously garnished with his unpredictable wit Booklist Have you ever daydreamed about digging a hole to the other side of the world Robert Banks not only entertains such ideas but supplies the mathematical know how to turn fantasies into problem solving adventures Now the author of *Towing Icebergs* *Falling Dominoes* and *Further Adventures in Applied Mathematics* presents another collection of puzzles to sharpen your thinking and mathematical skills The problems range from the wondrous to the eminently practical What s the total number of people who ve lived on Earth How do you get the most pizza slices with the least number of cuts To go from point A to point B in a downpour should you walk slowly jog moderately or run as fast as possible to get least wet What is the length of the seam on a baseball If all the ice in the world melted what would happen to Florida the Mississippi River and Niagara Falls Why do snowflakes have six sides Covering a broad range of fields from geography and environmental studies to map and flag making Banks uses mostly basic algebra and geometry to solve problems And if famous scientists have also pondered these questions he shares the historical details with the reader Banks displays a playful imagination and love of the fantastic that one would not ordinarily associate with a mathematical engineer entertaining *The Christian Science Monitor* *Towing Icebergs, Falling Dominoes, and Other Adventures in Applied Mathematics* Robert B. Banks, 2013-04-08 An engineering professor reveals how math and reasoning apply in the real world with a fascinating collection of problems and puzzles Library Journal A Choice Outstanding Academic Title of the Year Although we seldom think of it our lives are played out in a world of numbers Such common activities as throwing baseballs skipping rope growing flowers playing football measuring savings accounts and many others are inherently mathematical So are more speculative problems that are simply fun to ponder in themselves such as the best way to score Olympic events Here Robert Banks presents a wide range of musings both practical and entertaining that have intrigued him and others How tall can one grow Why do we get stuck in traffic Which football player would have a better chance of breaking away a small speedy wide receiver or a huge slow linebacker Can California water shortages be alleviated by towing icebergs from Antarctica What is the fastest the 100 meter dash will ever be run The book s twenty four concise chapters each centered on a real world phenomenon show how math and simple reasoning together may produce elegant models that explain everything from the federal debt to the proper technique for ski jumping Engaging New Scientist Infused with infectious enthusiasm Publishers Weekly Note Some images inside the book are unavailable due to digital copyright restrictions *Applications of Differential Equations in Engineering and Mechanics* Kam Tim Chau, 2019-01-08 This second of two comprehensive reference texts on differential equations continues coverage of the essential material students they are

likely to encounter in solving engineering and mechanics problems across the field alongside a preliminary volume on theory This book covers a very broad range of problems including beams and columns plates shells structural dynamics catenary and cable suspension bridge nonlinear buckling transports and waves in fluids geophysical fluid flows nonlinear waves and solitons Maxwell equations Schrodinger equations celestial mechanics and fracture mechanics and dynamics The focus is on the mathematical technique for solving the differential equations involved All readers who are concerned with and interested in engineering mechanics problems climate change and nanotechnology will find topics covered in this book providing valuable information and mathematics background for their multi disciplinary research and education *MATH BRIDGES*

TO A BETTER FUTURE: James Elander,2023-09-05 There s no available information at this time Author will provide once information is available **Alcuin's Recreational Mathematics** Marcel Danesi,2024-11-01 Propositiones ad acuendos

juvenes Problems to Sharpen the Young is a ninth century book written by medieval teacher and scholar Alcuin of York Today it has become one of the foundational texts in what is commonly called recreational mathematics The book has been translated in many languages and analysed from various mathematical angles and perspectives from contemporary arithmetic and geometry to the nature of sequences It is not only a collection of ingenious and challenging puzzles but the core ideas collected in this book have become major themes and branches of mathematics Here Marcel Danesi revisits all fifty three problems in Alcuin s original text providing detailed solutions and analyses Alcuin s Recreational Mathematics examines the problems in the Propositiones in easy to follow language extracting from them the notions and techniques that today constitute basic mathematics Each chapter discusses Alcuin s problems more broadly and ends with ten exploratory puzzles based on Alcuin s original problems and related themes Answers and detailed solutions are included at the back Alcuin s Recreational Mathematics demonstrates how Alcuin s Propositiones puts basic mathematical thinking on display via ingenious problems that often require outside of the box thinking constituting an original and imaginative investigation of mathematics in its essence **Mathematics in Nature** John Adam,2011-10-02 From rainbows river meanders and shadows

to spider webs honeycombs and the markings on animal coats the visible world is full of patterns that can be described mathematically Examining such readily observable phenomena this book introduces readers to the beauty of nature as revealed by mathematics and the beauty of mathematics as revealed in nature Generously illustrated written in an informal style and replete with examples from everyday life Mathematics in Nature is an excellent and undaunting introduction to the ideas and methods of mathematical modeling It illustrates how mathematics can be used to formulate and solve puzzles observed in nature and to interpret the solutions In the process it teaches such topics as the art of estimation and the effects of scale particularly what happens as things get bigger Readers will develop an understanding of the symbiosis that exists between basic scientific principles and their mathematical expressions as well as a deeper appreciation for such natural phenomena as cloud formations halos and glories tree heights and leaf patterns butterfly and moth wings and even puddles

and mud cracks Developed out of a university course this book makes an ideal supplemental text for courses in applied mathematics and mathematical modeling It will also appeal to mathematics educators and enthusiasts at all levels and is designed so that it can be dipped into at leisure

From ER to E.T. Rajeev Bansal, 2017-01-04 This book covers the study of electromagnetic wave theory and describes how electromagnetic technologies affect our daily lives From ER to ET How Electromagnetic Technologies Are Changing Our Lives explores electromagnetic wave theory including its founders scientific underpinnings ethical issues and applications through history Utilizing a format of short essays this book explains in a balanced and direct style how electromagnetic technologies are changing the world we live in and the future they may create for us Quizzes at the end of each chapter provide the reader with a deeper understanding of the material This book is a valuable resource for microwave engineers of varying levels of experience and for instructors to motivate their students and add depth to their assignments In addition this book Presents topics that investigate all aspects of electromagnetic technology throughout history Explores societal and global issues that relate to the field of electrical engineering emphasized in current ABET accreditation criteria Includes quizzes relevant to every essay and answers which explain technical perspectives Rajeev Bansal PhD is a professor of Electrical and Computer Engineering at the University of Connecticut He is a member of IEEE and the Connecticut Academy of Science and Engineering He is a Fellow of the Electromagnetics Academy His editing credits include Fundamentals of Engineering Electromagnetics and Engineering Electromagnetics Applications Dr Bansal contributes regular columns to IEEE Antennas and Propagation Magazine and IEEE Microwave Magazine

How to Guard an Art Gallery T.S. Michael, 2009-09-01 An accessible and engaging tool for understanding the branch of mathematics that is so crucial to modern computer science using real life problems Mathematical Reviews What is the maximum number of pizza slices one can get by making four straight cuts through a circular pizza How does a computer determine the best set of pixels to represent a straight line on a computer screen How many people at a minimum does it take to guard an art gallery Discrete mathematics has the answer to these and many other questions of picking choosing and shuffling T S Michael s gem of a book brings this vital but tough to teach subject to life using examples from the real world and popular culture Each chapter uses one problem such as slicing a pizza to detail key concepts about counting numbers and arranging finite sets Michael takes a different perspective in tackling each of eight problems and explains them in differing degrees of generality showing in the process how the same mathematical concepts appear in varied guises and contexts In doing so he imparts a broader understanding of the ideas underlying discrete mathematics and helps readers appreciate and understand mathematical thinking and discovery This book explains the basic concepts of discrete mathematics and demonstrates how to apply them in largely nontechnical language The explanations and formulas can be grasped with a basic understanding of linear equations

Practical Marketing for Your School Library C. L. Mansfield, 2025-10-16 Provides librarians and teachers with innovative ideas for producing a marketing plan newsletters

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