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JOHN A. ADAM

# A Mathematical Nature Walk

$$c(\lambda) = \left| \frac{q\lambda}{2\pi} \tanh \frac{2\pi h}{\lambda} \right|^{1/2}$$

# A Mathematical Nature Walk A Mathematical Nature Walk

**Mircea Pitici**



## **A Mathematical Nature Walk A Mathematical Nature Walk:**

**A Mathematical Nature Walk** John A. Adam, 2011-09-12 How heavy is that cloud Why can you see farther in rain than in fog Why are the droplets on that spider web spaced apart so evenly If you have ever asked questions like these while outdoors and wondered how you might figure out the answers this is a book for you An entertaining and informative collection of fascinating puzzles from the natural world around us A Mathematical Nature Walk will delight anyone who loves nature or math or both John Adam presents ninety six questions about many common natural phenomena and a few uncommon ones and then shows how to answer them using mostly basic mathematics Can you weigh a pumpkin just by carefully looking at it Why can you see farther in rain than in fog What causes the variations in the colors of butterfly wings bird feathers and oil slicks And why are large haystacks prone to spontaneous combustion These are just a few of the questions you ll find inside Many of the problems are illustrated with photos and drawings and the book also has answers a glossary of terms and a list of some of the patterns found in nature About a quarter of the questions can be answered with arithmetic and many of the rest require only precalculus But regardless of math background readers will learn from the informal descriptions of the problems and gain a new appreciation of the beauty of nature and the mathematics that lies behind it

**The Mathematics of Patterns, Symmetries, and Beauties in Nature** Bourama Toni, 2021-12-06 This unique book gathers various scientific and mathematical approaches to and descriptions of the natural and physical world stemming from a broad range of mathematical areas from model systems differential equations statistics and probability all of which scientifically and mathematically reveal the inherent beauty of natural and physical phenomena Topics include Archimedean and Non Archimedean approaches to mathematical modeling thermography model with application to tungiasis inflammation of the skin modeling of a tick Killing Robot various aspects of the mathematics for Covid 19 from simulation of social distancing scenarios to the evolution dynamics of the coronavirus in some given tropical country to the spatiotemporal modeling of the progression of the pandemic Given its scope and approach the book will benefit researchers and students of mathematics the sciences and engineering and everyone else with an appreciation for the beauty of nature The outcome is a mathematical enrichment of nature s beauty in its various manifestations This volume honors Dr John Adam a Professor at Old Dominion University USA for his lifetime achievements in the fields of mathematical modeling and applied mathematics Dr Adam has published over 110 papers and authored several books

*Eco-Mathematics Education* Nataly Chesky, Jack Milgram, 2021-10-18 Eco Mathematics Education strives to show how everyone can experience the embedded connection between mathematics and the natural world The authors sincere hope is that by doing so we can radically change the way we come to understand mathematics as well as humanity s place in the ecosystem The book hopes to accomplish this by providing in depth lesson plans and resources for educators and anyone interested in teaching and learning mathematics through an ecological aesthetic perspective All lessons are based on the inquiry method of teaching aligned to standards

incorporate art projects inspired by famous artists and utilize recycled and or natural materials as much as possible

**Waves in Complex Media** Luca Dal Negro, 2022-05-04 This book offers a clear and interdisciplinary introduction to the structural and scattering properties of complex photonic media focusing on deterministic aperiodic structures and their conceptual roots in geometry and number theory It integrates important results and recent developments into a coherent and physically consistent story balanced between mathematical designs scattering and optical theories and engineering device applications The book includes discussions of emerging device applications in metamaterials and nano optics technology Both academia and industry will find the book of interest as it develops the underlying physical and mathematical background in partnership with engineering applications providing a perspective on both fundamental optical sciences and photonic device technology Emphasizing the comprehension of physical concepts and their engineering implications over the more formal developments this is an essential introduction to the stimulating and fast growing field of aperiodic optics and complex photonics

Connecting Primary Maths and Science: A Practical Approach Alan Cross, Alison Borthwick, 2016-02-16 At last a unique book that explores and exploits the links between primary mathematics and science so that you can promote learning in both of these important STEM subjects Rich in engaging ideas and activities for the classroom this book helps you plan and teach well structured lessons in a more integrated way The book outlines key curriculum topics in both subjects and considers why it is important and beneficial to make connections between the two As well as covering key subject knowledge what you need to know and teaching activities what you need to do the book explores learners mathematical and scientific needs and defines the characteristics of effective teaching and learning bringing it all together with ideas which you can use straightway in your classroom Key features promotes an informed approach to integrating primary mathematics and science teaching helps address the time constraints of delivering the primary national curriculum presents engaging ideas which can be directly transferred to the classroom provides a real life context to mathematics and science activities to inspire student learning helps you combine two closely related and sometimes tricky subject areas why teach one subject when you can teach two at the same time Accessible readable and engaging with a range of innovative teaching ideas this is an invaluable book for all trainee and qualified primary teachers and other educational professionals with links to primary mathematics and science A great go to book for teachers and trainee teachers alike Chapters are constructed with easy to read objectives and clear summaries Many practical ideas incorporating current research as well as information on mathematicians and scientists which is great for boosting children s aspirations and also helping with teachers confidence on the subjects A lovely easy to access book whether it is to use for reference to dip in and out of or just to use alongside planning materials Maria McArdle Senior Lecturer PGCE Mathematics Lead Primary University of Bedfordshire UK

*Rays, Waves, and Scattering* John Adam, 2017-05-30 This one of a kind book presents many of the mathematical concepts structures and techniques used in the study of rays waves and scattering Panoramic in scope it

includes discussions of how ocean waves are refracted around islands and underwater ridges how seismic waves are refracted in the earth's interior how atmospheric waves are scattered by mountains and ridges how the scattering of light waves produces the blue sky and meteorological phenomena such as rainbows and coronas Rays Waves and Scattering is a valuable resource for practitioners graduate students and advanced undergraduates in applied mathematics theoretical physics and engineering Bridging the gap between advanced treatments of the subject written for specialists and less mathematical books aimed at beginners this unique mathematical compendium features problems and exercises throughout that are geared to various levels of sophistication covering everything from Ptolemy's theorem to Airy integrals as well as more technical material and several informative appendixes Provides a panoramic look at wave motion in many different contexts Features problems and exercises throughout Includes numerous appendixes some on topics not often covered An ideal reference book for practitioners Can also serve as a supplemental text in classical applied mathematics particularly wave theory and mathematical methods in physics and engineering Accessible to anyone with a strong background in ordinary differential equations partial differential equations and functions of a complex variable     **Mathematical**

**Mysteries In The Natural World: Why The Small Outnumbers The Big** Alex Ely Kossovsky, 2025-08-19 Why are there more poor people with small bank accounts than rich people with big bank accounts Why are there more small planets and stars than big ones in the cosmos And why are there more small rivers than big rivers and more harmless tremors than devastating earthquakes Empirical examinations of real life data overwhelmingly confirm the existence of such uneven size proportions in favor of the small leaving us only the question Why This law of nature carries through a vast list of topics and disciplines confirming it to be nearly universal In the biological world there are only approximately two million whales and over three hundred billion birds in number theory there are more small prime numbers than there are big ones in census data there are more villages than towns more towns than cities and more cities than metropolises in history there have been more minor conflicts than great wars In a landmark first ever study on the distribution of relative sizes this book discusses several real life case studies such as those above in extensive detail and presents three distinct explanations for the phenomenon Readers of all disciplines and levels of expertise will find an easily accessible yet original exploration that concludes with a numerical quantification demonstrating precisely by how much the relatively small is more numerous than the relatively big     *The Best Writing on Mathematics 2010* Mircea Pitici, 2021-09-14 The year's most memorable writing on mathematics This anthology brings together the year's finest writing on mathematics from around the world Featuring promising new voices alongside some of the foremost names in mathematics *The Best Writing on Mathematics* makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today's hottest

mathematical debates Here readers will discover why Freeman Dyson thinks some mathematicians are birds while others are frogs why Keith Devlin believes there s more to mathematics than proof what Nick Paumgarten has to say about the timing patterns of New York City s traffic lights and why jaywalking is the most mathematically efficient way to cross Sixty sixth Street what Samuel Arbesman can tell us about the epidemiology of the undead in zombie flicks and much much more In addition to presenting the year s most memorable writing on mathematics this must have anthology also includes a foreword by esteemed mathematician William Thurston and an informative introduction by Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it s headed

**Pragmatic Mathematics For Scientists And Engineers** Alexander L Godunov,John A Adam,2024-08-27 This is a textbook on basic to intermediate mathematics for undergraduate students majoring in the physical sciences and engineering Many chapters covering topics like Green s functions calculus of variations and functions of a complex variable are well suited for graduate classes Additionally researchers can benefit from the book as a mathematical refresher for their professional work The book provides readers with a fundamental understanding of underlying principles using derivations based more on mathematical intuition rather than exposing them to multiple theorems proofs and lemmas Each chapter includes highly relevant examples with detailed solutions and explanations promoting a practical application of knowledge to real problems in the physical sciences For the convenience of both students and instructors there are end of chapter exercises with answers that can be easily utilized for assignments The book is not a replacement for calculus textbooks but rather a guide to the mathematics most relevant to the physical sciences and engineering In conclusion this book can be readily adapted for upper level undergraduate and graduate classes particularly those focusing on mathematical methods for students in physical sciences applied mathematics and engineering majors

**Optics of Aperiodic Structures** Luca Dal Negro,2013-12-21 This book presents state of the art contributions from a number of leading experts that actively work worldwide in the rapidly growing highly interdisciplinary and fascinating fields of aperiodic optics and complex photonics Edited by Luca Dal Negro a prominent researcher in these areas of optical science the book covers the fundamental computational and experimental aspects of deterministic aperiodic structures as well as numerous device and engineering applications to dense optical filters nanoplasmonics photovoltaics and technologies optical sensing light sources and nonlinear optics

*Mathematics in Western Culture* Morris Kline,1964-12-31 This book gives a remarkably fine account of the influences mathematics has exerted on the development of philosophy the physical sciences religion and the arts in Western life

**How to be Inventive When Teaching Primary Mathematics** Steve Humble,2015-04-10 Have you ever taken your children on a maths walk Are your pupils shape detectives How to be Inventive When Teaching Primary Mathematics is a pocket guide to inspire primary teachers to become confident effective imaginative teachers who enjoy teaching and whose pupils enjoy learning It is packed with exciting creative unexpected ideas to help teachers and pupils open their eyes to the mathematical world around them It gives teachers the tools to develop their own

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Sum of the Parts Kent C Ryden,2011-04-01 Proponents of the new regional history understand that regional identities are constructed and contested multifarious and not monolithic that they involve questions of dominance and power and that their nature is inherently political In this lively new book writing in the spirit of these understandings Kent Ryden engagingly examines works of American regional writing to show us how literary partisans of place create and recreate attack and defend argue over and dramatize the meaning and identity of their regions in the pages of their books Cleverly drawing upon mathematical models that complement his ideas and focusing on both classic and contemporary literary regionalists Ryden demonstrates that regionalism in the cultural sense retains a great deal of power as a framework for literary interpretation For New England he examines such writers as Robert Frost and Hayden Carruth Mary E Wilkins Freeman and Edith Wharton and Carolyn Chute and Russell Banks to demonstrate that today s regionalists inspire closer more democratic readings of life and landscape For the West and South he describes Wallace Stegner s and William Faulkner s use of region to respectively exclude and evade or confront and indict For the Midwest he focuses on C J Hribal William Least Heat Moon Paul Gruchow and others to demonstrate that midwesterners continually construct the past anew from the materials at hand filling the seemingly empty midlands with history and significance Ryden reveals that there are many Wests many New Englands many Souths and many Midwesterns all raising similar issues about the cultural politics of region and place Writing with appealing freshness and a sense of adventure he shows us that place and the stories that emerge from and define place can be a source of subversive energy that blunts the homogenizing force of region inscribing marginal places and people back onto the imaginative surface of the landscape when we read it on a place by place landscape by landscape book by book basis

*Robotics in Natural Settings* José M. Cascalho,Mohammad Osman Tokhi,Manuel F. Silva,Armando Mendes,Khaled Goher,Matthias Funk,2022-08-24 This book includes recent research on climbing and walking robots CLAWAR 2022 is the twenty fifth International Conference Series on Climbing and Walking Robots and Mobile

Machine Support Technologies The conference is organized by CLAWAR Association in collaboration with the University of the Azores S Miguel Portugal during September 12 14 2022 CLAWAR 2022 provides an updated state of the art on robotics and its use in a diversity of applications and or simulation scenarios within the framework Robotics in Natural Settings The topics covered include Bio Inspired Robotics Biped Locomotion Educational Robotics Human Machine Human Robot Interaction Innovative Actuators Inspection Legged Locomotion Modeling and Simulation of CLAWAR Outdoor and Field Robotics Planning and Control Wearable Devices and Assistive Robotics and the Use of A I in Robotics The intended readership includes participants of CLAWAR 2022 conference international robotic researchers scientists and professors of related topics worldwide and professors and students of postgraduate courses in Robotics and Automation Control Engineering Mechanical Engineering and Mechatronics

*West Bengal TET (Teacher Eligibility Test) Paper 1 Book (English Edition) - 10 Practice Tests (1800 Solved Questions)* EduGorilla Prep Experts, 2023-10-03 Best Selling Book in English Edition for West Bengal TET Paper 1 Exam with objective type questions as per the latest syllabus West Bengal TET Paper 1 Preparation Kit comes with 10 Practice Tests with the best quality content Increase your chances of selection by 16X West Bengal TET Paper 1 Exam Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts

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excellent approach to Master the subject The book has 10 key ingredients that will help you achieve success 1 Chapter Utility Score CUS 2 Exhaustive Theory with Concept Maps 3 Text Book exercises 4 VSA SA LA Questions 5 Past year questions including 2017 Solved papers 6 HOTS Value based Exemplar 7 Past NTSE Exemplar MCQ s 8 15 Chapter Tests ebook 9 Important Formulas Terms Definitions 10 3 Sample Papers with detailed solutions      The Little Creative Mind: Unlocking Your Child's Natural Talents Pasquale De Marco,2025-03-21 The early years of a child s life are a time of incredible growth and development During this time children are constantly learning and absorbing information from their surroundings They are also developing their own unique talents and abilities As parents we play a vital role in nurturing our children s creativity and helping them to reach their full potential This book is a comprehensive guide to helping your child develop their creative talents It is filled with practical advice and activities that you can use to encourage your child s imagination curiosity and problem solving skills We will explore the different ways that children express their creativity from art and music to drama and science We will also discuss the importance of providing a supportive environment for your child s creativity and how to help them overcome challenges Creativity is essential for a child s development It helps them to learn grow and thrive Creative children are better at problem solving critical thinking and communication They are also more likely to be successful in school and in their careers Fostering creativity in your child is one of the best things you can do for their future By providing them with opportunities to explore their creativity you are helping them to develop the skills they need to succeed in life In this book you will find everything you need to know to help your child develop their creative talents We will cover a wide range of topics including The importance of early childhood development How to identify your child s unique talents Creating a nurturing environment for creativity Encouraging imaginative play Fostering artistic expression Developing musical skills Encouraging creative writing Cultivating a love for science and math Using technology to support creativity Nurturing the creative spirit Whether your child is a budding artist a musical prodigy or a future scientist this book has something for everyone With the help of this book you can help your child unlock their full creative potential and set them on the path to success Unlock your child s inner creativity and watch them shine If you like this book write a review

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