

JOHN BRYANT and  
CHRIS SANGWIN

# How Round Is Your Circle?

Where Engineering  
and Mathematics Meet



# How Round Is Your Circle Where Engineering And Mathematics Meet

**Klaus Hentschel**



## **How Round Is Your Circle Where Engineering And Mathematics Meet:**

How Round Is Your Circle? John Bryant, Chris Sangwin, 2011-02-28 How do you draw a straight line How do you determine if a circle is really round These may sound like simple or even trivial mathematical problems but to an engineer the answers can mean the difference between success and failure How Round Is Your Circle invites readers to explore many of the same fundamental questions that working engineers deal with every day it's challenging hands on and fun John Bryant and Chris Sangwin illustrate how physical models are created from abstract mathematical ones Using elementary geometry and trigonometry they guide readers through paper and pencil reconstructions of mathematical problems and show them how to construct actual physical models themselves directions included It's an effective and entertaining way to explain how applied mathematics and engineering work together to solve problems everything from keeping a piston aligned in its cylinder to ensuring that automotive driveshafts rotate smoothly Intriguingly checking the roundness of a manufactured object is trickier than one might think When does the width of a saw blade affect an engineer's calculations or for that matter the width of a physical line When does a measurement need to be exact and when will an approximation suffice Bryant and Sangwin tackle questions like these and enliven their discussions with many fascinating highlights from engineering history Generously illustrated How Round Is Your Circle reveals some of the hidden complexities in everyday things MUS - Mathematimus - Hyperelliptical Geometry Stenio Musich, 2024-03-25 M U S Mathematical Uniform Space is a new number of  $\pi$  representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0 Mathematics Education in the Age of Artificial Intelligence Philippe R. Richard, M. Pilar Vélez, Steven Van Vaerenbergh, 2022-03-09 This book highlights the contribution of artificial intelligence for mathematics education It provides concrete ideas supported by mathematical work obtained through dynamic international collaboration and discusses the flourishing of new mathematics in the contemporary world from a sustainable development perspective Over the past thirty years artificial intelligence has gradually infiltrated all facets of society When it is deployed in interaction with the human designer or user AI certainly raises new ethical questions But as soon as it aims to augment intelligence in a kind of human machine partnership it goes to the heart of knowledge development and the very performance of work The proposed themes and the sections of the book address original issues relating to the creation of AI milieus to work on mathematics to the AI supported learning of mathematics and to the coordination of usual paper pencil techniques and new AI aided educational working spaces The authors of the book and the coordinators of each section are all established specialists in mathematics didactics mathematics and computer science In summary this book is a must read for everyone interested in the teaching and learning of mathematics and it concerns the interaction between the human and the machine in both directions It contains ideas questions and inspiration that invite to

take up the challenge of Artificial Intelligence contributing to Mathematical Human Learning *Innovating STEM Education: Increased Engagement and Best Practices* Eugenia Koleza, Christos Panagiotakopoulos, Constantine Skordoulis, 2022-09-15 In recent years there has been a focus on promoting the uptake of STEM subjects in schools This has been driven by the need to ensure that young people gain the knowledge and skills essential to help them participate in a society in which mathematics science and technology are increasingly important Nevertheless reform efforts including curriculum development have treated the STEM subjects mostly in isolation Recognizing that efforts for education within each individual STEM discipline would encourage a wide range of conversations about different important aspects of teaching and learning this conference considered the potential benefits and challenges for the integration of various STEM s characteristics into education In order to prepare students to address the problems of our society it is necessary to provide them with opportunities to understand these problems through rich engaging and powerful experiences that integrate the disciplines of STEM This volume contains selected papers presented at the Hellenic Conferences Innovating STEM education HiSTEM 2016 and 2018 organized by the Postgraduate Program Interdisciplinary Approach on Science Technology Engineering and Mathematics in Education STEM Education stemeducation upatras gr The first eleven papers were presented at the HiSTEM 2016 Conference and the last six papers at the HiSTEM 2018 Conference These papers were selected after a peer review process from the conferences submitted papers The conferences provided a platform for dissemination of best practices in teaching and learning STEM in Greece and also inspired and empowered STEM educators to improve teaching quality to increase engagement in STEM education and career pathways to connect students with real life industry relevancy and to drive creativity inquiry based learning problem solving and project based learning **Proof Technology in Mathematics Research and Teaching** Gila Hanna, David A. Reid, Michael de Villiers, 2019-10-02 This book presents chapters exploring the most recent developments in the role of technology in proving The full range of topics related to this theme are explored including computer proving digital collaboration among mathematicians mathematics teaching in schools and universities and the use of the internet as a site of proof learning Proving is sometimes thought to be the aspect of mathematical activity most resistant to the influence of technological change While computational methods are well known to have a huge importance in applied mathematics there is a perception that mathematicians seeking to derive new mathematical results are unaffected by the digital era The reality is quite different Digital technologies have transformed how mathematicians work together how proof is taught in schools and universities and even the nature of proof itself Checking billions of cases in extremely large but finite sets impossible a few decades ago has now become a standard method of proof Distributed proving by teams of mathematicians working independently on sections of a problem has become very much easier as digital communication facilitates the sharing and comparison of results Proof assistants and dynamic proof environments have influenced the verification or refutation of conjectures and ultimately how and why proof is taught

in schools And techniques from computer science for checking the validity of programs are being used to verify mathematical proofs Chapters in this book include not only research reports and case studies but also theoretical essays reviews of the state of the art in selected areas and historical studies The authors are experts in the field     Explorations in the History of Machines and Mechanisms Teun Koetsier,Marco Ceccarelli,2012-04-05 This book contains the proceedings of HMM2012 the 4th International Symposium on Historical Developments in the field of Mechanism and Machine Science MMS These proceedings cover recent research concerning all aspects of the development of MMS from antiquity until the present and its historiography machines mechanisms kinematics dynamics concepts and theories design methods collections of methods collections of models institutions and biographies     Bodies of Constant Width Horst Martini,Luis Montejano,Déborah Oliveros,2019-03-16 This is the first comprehensive monograph to thoroughly investigate constant width bodies which is a classic area of interest within convex geometry It examines bodies of constant width from several points of view and in doing so shows surprising connections between various areas of mathematics Concise explanations and detailed proofs demonstrate the many interesting properties and applications of these bodies Numerous instructive diagrams are provided throughout to illustrate these concepts An introduction to convexity theory is first provided and the basic properties of constant width bodies are then presented The book then delves into a number of related topics which include Constant width bodies in convexity sections and projections complete and reduced sets mixed volumes and further partial fields Sets of constant width in non Euclidean geometries in real Banach spaces and in hyperbolic spherical and further non Euclidean spaces The concept of constant width in analysis using Fourier series spherical integration and other related methods Sets of constant width in differential geometry using systems of lines and discussing notions like curvature evolutes etc Bodies of constant width in topology hyperspaces transnormal manifolds fiber bundles and related topics The notion of constant width in discrete geometry referring to geometric inequalities packings and coverings etc Technical applications such as film projectors the square hole drill and rotary engines Bodies of Constant Width An Introduction to Convex Geometry with Applications will be a valuable resource for graduate and advanced undergraduate students studying convex geometry and related fields Additionally it will appeal to any mathematicians with a general interest in geometry     The Pythagorean Theorem Eli Maor,2019-11-19 Frontmatter Contents List of Color Plates Preface Prologue Cambridge England 1993 1 Mesopotamia 1800 BCE Sidebar 1 Did the Egyptians Know It 2 Pythagoras 3 Euclid s Elements Sidebar 2 The Pythagorean Theorem in Art Poetry and Prose 4 Archimedes 5 Translators and Commentators 500 1500 CE 6 François Viète Makes History 7 From the Infinite to the Infinitesimal Sidebar 3 A Remarkable Formula by Euler 8 371 Proofs and Then Some Sidebar 4 The Folding Bag Sidebar 5 Einstein Meets Pythagoras Sidebar 6 A Most Unusual Proof 9 A Theme and Variations Sidebar 7 A Pythagorean Curiosity Sidebar 8 A Case of Overuse 10 Strange Coordinates 11 Notation Notation Notation 12 From Flat Space to Curved Spacetime Sidebar 9 A Case of Misuse 13 Prelude to Relativity 14 From Bern to Berlin 1905 1915 Sidebar

10 Four Pythagorean Brainteasers 15 But Is It Universal 16 Afterthoughts Epilogue Samos 2005 Appendixes Chronology Bibliography Illustrations Credits Index

**Curves for the Mathematically Curious** Julian Havil, 2021-11-02 Ten amazing curves personally selected by one of today's most important math writers *Curves for the Mathematically Curious* is a thoughtfully curated collection of ten mathematical curves selected by Julian Havil for their significance, mathematical interest, and beauty. Each chapter gives an account of the history and definition of one curve, providing a glimpse into the elegant and often surprising mathematics involved in its creation and evolution. In telling the ten stories, Havil introduces many mathematicians and other innovators, some whose fame has withstood the passing of years and others who have slipped into comparative obscurity. You will meet Pierre Bézout, who is known for his ubiquitous and eponymous curves, and Adolphe Quetelet, who trumpeted the ubiquity of the normal curve but whose name now hides behind the modern body mass index. These and other ingenious thinkers engaged with the challenges, incongruities, and insights to be found in these remarkable curves, and now you can share in this adventure. *Curves for the Mathematically Curious* is a rigorous and enriching mathematical experience for anyone interested in curves, and the book is designed so that readers who choose can follow the details with pencil and paper. Every curve has a story worth telling.

**An Introduction to Analysis** Robert C. Gunning, 2018-03-20 An essential undergraduate textbook on algebra, topology, and calculus. *An Introduction to Analysis* is an essential primer on basic results in algebra, topology, and calculus for undergraduate students considering advanced degrees in mathematics. Ideal for use in a one-year course, this unique textbook also introduces students to rigorous proofs and formal mathematical writing skills they need to excel. With a range of problems throughout, *An Introduction to Analysis* treats  $n$ -dimensional calculus from the beginning, differentiation, the Riemann integral, series, and differential forms, and Stokes's theorem, enabling students who are serious about mathematics to progress quickly to more challenging topics. The book discusses basic material on point set topology, such as normed and metric spaces, topological spaces, compact sets, and the Baire category theorem. It covers linear algebra as well, including vector spaces, linear mappings, Jordan normal form, bilinear mappings, and normal mappings. Proven in the classroom, *An Introduction to Analysis* is the first textbook to bring these topics together in one easy-to-use and comprehensive volume. Provides a rigorous introduction to calculus in one and several variables. Introduces students to basic topology. Covers topics in linear algebra, including matrices, determinants, Jordan normal form, and bilinear and normal mappings. Discusses differential forms and Stokes's theorem in  $n$  dimensions. Also covers the Riemann integral, integrability, improper integrals, and series expansions.

*Bicycle or Unicycle?: A Collection of Intriguing Mathematical Puzzles* Daniel J. Velleman, Stan Wagon, 2020-08-17 *Bicycle or Unicycle?* is a collection of 105 mathematical puzzles whose defining characteristic is the surprise encountered in their solutions. Solvers will be surprised, even occasionally shocked, at those solutions. The problems unfold into levels of depth and generality very unusual in the types of problems seen in contests. In contrast to contest problems, these are problems meant to be savored; many solutions all

beautifully explained lead to unanswered research questions At the same time the mathematics necessary to understand the problems and their solutions is all at the undergraduate level The puzzles will nonetheless appeal to professionals as well as to students and in fact to anyone who finds delight in an unexpected discovery These problems were selected from the Macalester College Problem of the Week archive The Macalester tradition of a weekly problem was started by Joseph Konhauser in 1968 In 1993 Stan Wagon assumed problem generating duties A previous book written by Wagon Konhauser and Dan Velleman Which Way Did the Bicycle Go gathered problems from the first twenty five years of the archive The title problem in that collection was inspired by an error in logic made by Sherlock Holmes who attempted to determine the direction of a bicycle from the tracks of its wheels Here the title problem asks whether a bicycle track can always be distinguished from a unicycle track You ll be surprised by the answer

**How to Fold It** Joseph O'Rourke, 2011-04-25 What do proteins and pop up cards have in common How is opening a grocery bag different from opening a gift box How can you cut out the letters for a whole word all at once with one straight scissors cut How many ways are there to flatten a cube With the help of 200 colour figures author Joseph O Rourke explains these fascinating folding problems starting from high school algebra and geometry and introducing more advanced concepts in tangible contexts as they arise He shows how variations on these basic problems lead directly to the frontiers of current mathematical research and offers ten accessible unsolved problems for the enterprising reader Before tackling these you can test your skills on fifty exercises with complete solutions The book s website <http://www.howtofoldit.org> has dynamic animations of many of the foldings and downloadable templates for readers to fold or cut out

Beautiful Geometry Eli Maor, Eugen Jost, 2017-04-11 An exquisite visual celebration of the 2 500 year history of geometry If you ve ever thought that mathematics and art don t mix this stunning visual history of geometry will change your mind As much a work of art as a book about mathematics Beautiful Geometry presents more than sixty exquisite color plates illustrating a wide range of geometric patterns and theorems accompanied by brief accounts of the fascinating history and people behind each With artwork by Swiss artist Eugen Jost and text by math historian Eli Maor this unique celebration of geometry covers numerous subjects from straightedge and compass constructions to intriguing configurations involving infinity The result is a delightful and informative illustrated tour through the 2 500 year old history of one of the most important branches of mathematics

*Model-Centered Learning* Lingguo Bu, Robert Schoen, 2012-01-01 Model Centered Learning Pathways to Mathematical Understanding Using GeoGebra is the first book to report on the international use of GeoGebra and its growing impact on mathematics teaching and learning Supported by new developments in model centered learning and instruction the chapters in this book move beyond the traditional views of mathematics and mathematics teaching providing theoretical perspectives and examples of practice for enhancing students mathematical understanding through mathematical and didactical modeling Designed specifically for teaching mathematics GeoGebra integrates dynamic multiple representations in a conceptually rich learning environment that supports the

exploration construction and evaluation of mathematical models and simulations The open source nature of GeoGebra has led to a growing international community of mathematicians teacher educators and classroom teachers who seek to tackle the challenges and complexity of mathematics education through a grassroots initiative using instructional innovations The chapters cover six themes 1 the history philosophy and theory behind GeoGebra 2 dynamic models and simulations 3 problem solving and attitude change 4 GeoGebra as a cognitive and didactical tool 5 curricular challenges and initiatives 6 equity and sustainability in technology use This book should be of interest to mathematics educators mathematicians and graduate students in STEM education and instructional technologies

**Paradoxes and Sophisms in Calculus** Sergiy Klymchuk, Susan Staples, 2013-12-31 Paradoxes and Sophisms in Calculus offers a delightful supplementary resource to enhance the study of single variable calculus By the word paradox the Author s mean a surprising unexpected counter intuitive statement that looks invalid but in fact is true The word sophism describes intentionally invalid reasoning that looks formally correct but in fact contains a subtle mistake or flaw In other words a sophism is a false proof of an incorrect statement A collection of over fifty paradoxes and sophisms showcases the subtleties of this subject and leads students to contemplate the underlying concepts A number of the examples treat historically significant issues that arose in the development of calculus while others more naturally challenge readers to understand common misconceptions Sophisms and paradoxes from the areas of functions limits derivatives integrals sequences and series are explored

Visual Cultures in Science and Technology Klaus Hentschel, 2014 This book aims to provide a synthesis of the history generation use and transfer of images in scientific practice It delves into the rich reservoir of case studies on visual representations in scientific and technological practice that have accumulated over the past couple of decades by historians sociologists and philosophers of science The main aim is thus located on the meta level It adopts an integrative view of recurrently noted general features of visual cultures in science and technology something hitherto unachieved and believed by many to be a mission impossible By systematic comparison of numerous case studies the purview broadens away from myopic microanalysis in search of overriding patterns The many different disciplines and research areas involved encompass mathematics technology natural history medicine the geosciences astronomy chemistry and physics The chosen examples span the period from the Renaissance to the late 20th century The broad range of visual representations in scientific practice is treated as well as schooling in pattern recognition design and implementation of visual devices and a narrowing in on the special role of illustrators and image specialists

Intelligent Robotics and Applications Huayong Yang, Honghai Liu, Jun Zou, Zhouping Yin, Lianqing Liu, Geng Yang, Xiaoping Ouyang, Zhiyong Wang, 2023-10-12 The 9 volume set LNAI 14267 14275 constitutes the proceedings of the 16th International Conference on Intelligent Robotics and Applications ICIRA 2023 which took place in Hangzhou China during July 5 7 2023 The 413 papers included in these proceedings were carefully reviewed and selected from 630 submissions They were organized in topical sections as follows Part I Human Centric Technologies for Seamless



Human Robot Collaboration Multimodal Collaborative Perception and Fusion Intelligent Robot Perception in Unknown Environments Vision Based Human Robot Interaction and Application Part II Vision Based Human Robot Interaction and Application Reliable AI on Machine Human Reactions Wearable Sensors and Robots Wearable Robots for Assistance Augmentation and Rehabilitation of Human Movements Perception and Manipulation of Dexterous Hand for Humanoid Robot Part III Perception and Manipulation of Dexterous Hand for Humanoid Robot Medical Imaging for Biomedical Robotics Advanced Underwater Robot Technologies Innovative Design and Performance Evaluation of Robot Mechanisms Evaluation of Wearable Robots for Assistance and Rehabilitation 3D Printing Soft Robots Part IV 3D Printing Soft Robots Dielectric Elastomer Actuators for Soft Robotics Human like Locomotion and Manipulation Pattern Recognition and Machine Learning for Smart Robots Part V Pattern Recognition and Machine Learning for Smart Robots Robotic Tactile Sensation Perception and Applications Advanced Sensing and Control Technology for Human Robot Interaction Knowledge Based Robot Decision Making and Manipulation Design and Control of Legged Robots Part VI Design and Control of Legged Robots Robots in Tunnelling and Underground Space Robotic Machining of Complex Components Clinically Oriented Design in Robotic Surgery and Rehabilitation Visual and Visual Tactile Perception for Robotics Part VII Visual and Visual Tactile Perception for Robotics Perception Interaction and Control of Wearable Robots Marine Robotics and Applications Multi Robot Systems for Real World Applications Physical and Neurological Human Robot Interaction Part VIII Physical and Neurological Human Robot Interaction Advanced Motion Control Technologies for Mobile Robots Intelligent Inspection Robotics Robotics in Sustainable Manufacturing for Carbon Neutrality Innovative Design and Performance Evaluation of Robot Mechanisms Part IX Innovative Design and Performance Evaluation of Robot Mechanisms Cutting Edge Research in Robotics     **Relativistic Field Theory for Microwave Engineers** Matthew A. Morgan, 2024-06-30 This book explores the fundamental but often overlooked connection between Maxwell's equations as they are taught in undergraduate electrical engineering courses and special relativity Written for an audience of practical engineers instead of theoretical physicists it exposes the underlying contradictions brought about by the emergence of electromagnetic theory one of the greatest triumphs in mathematical physics of all time that unified the phenomena of electricity magnetism and light into a world in which the classical Galilean principle of relativity was considered incontrovertible It explains how Einstein redefined the concepts of space and time and what it means to measure them while altogether disbanding the notion of global simultaneity A manifestly relativistic formulation of electromagnetic laws is first presented and then applied to common engineering problems like the interaction of electromagnetic fields at dynamic interfaces the derivation of propagating modes in closed metal waveguides and the foundations of microwave network theory Mathematical toolkits for relativistic analysis such as tensor notation and spacetime algebra are explained These tools are then used to analyze the consequences of motion at relativistic speeds upon otherwise well known electromagnetic circuit behaviors Well drawn and insightful diagrams along with articulate

explanations help the reader to gain an intuitive understanding of four dimensional spacetime and the nature of the electromagnetic field in that context while summary tables and comprehensive appendices serve as a resource for further selfdirected exploration Readers trained in microwave engineering will learn to see their field from a new perspective and shall gain from that new insight the ability to conceive of unexpected solutions to practical engineering problems that might otherwise defy one s intuition      **The American Mathematical Monthly** ,2008      **Choice** ,2008

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