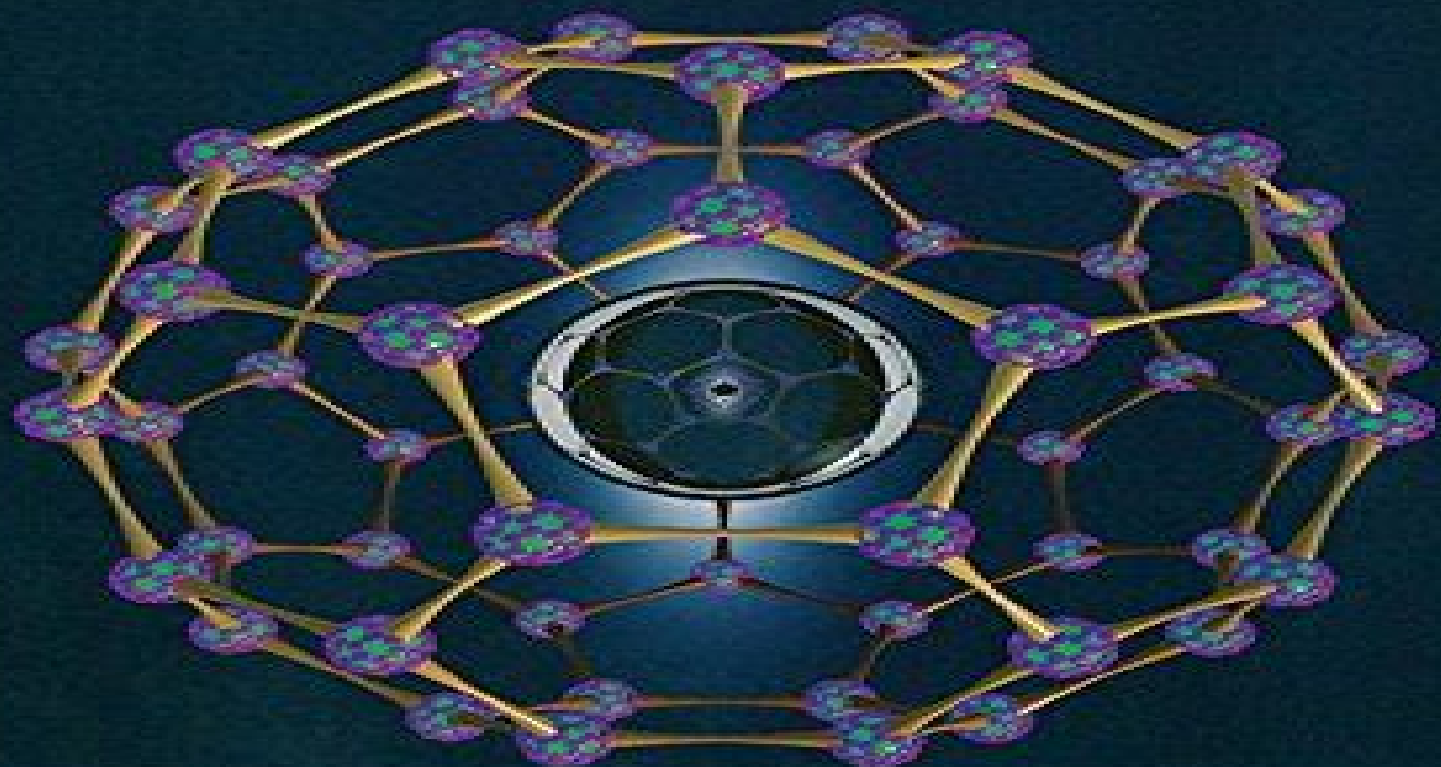


A MATHEMATICAL SPACE ODYSSEY

Solid Geometry in the 21st Century

Claudi Alsina and Roger B. Nelsen



A Mathematical Space Odyssey Solid Geometry In The 21st Century

Claudi Alsina



A Mathematical Space Odyssey Solid Geometry In The 21st Century:

A Mathematical Space Odyssey Claudi Alsina,Roger B. Nelsen,2015-12-31 Solid geometry is the traditional name for what we call today the geometry of three dimensional Euclidean space This book presents techniques for proving a variety of geometric results in three dimensions Special attention is given to prisms pyramids platonic solids cones cylinders and spheres as well as many new and classical results A chapter is devoted to each of the following basic techniques for exploring space and proving theorems enumeration representation dissection plane sections intersection iteration motion projection and folding and unfolding The book includes a selection of Challenges for each chapter with solutions references and a complete index The text is aimed at secondary school and college and university teachers as an introduction to solid geometry as a supplement in problem solving sessions as enrichment material in a course on proofs and mathematical reasoning or in a mathematics course for liberal arts students

A Mathematical Space Odyssey Claudi Alsina,Roger B. Nelsen,2015-08-21 Solid geometry is the traditional name for what we call today the geometry of three dimensional Euclidean space Courses in solid geometry have largely disappeared from American high schools and colleges The authors are convinced that a mathematical exploration of three dimensional geometry merits some attention in today s curriculum **A Mathematical Space Odyssey Solid Geometry in the 21st Century** is devoted to presenting techniques for proving a variety of mathematical results in three dimensional space techniques that may improve one s ability to think visually Special attention is given to the classical icons of solid geometry prisms pyramids platonic solids cones cylinders and spheres and many new and classical results Cavalieri s principle Commandino s theorem de Gua s theorem Prince Rupert s cube the Menger sponge the Schwarz lantern Euler s rotation theorem the Loomis Whitney inequality Pythagorean theorems in three dimensions etc The authors devote a chapter to each of the following basic techniques for exploring space and proving theorems enumeration representation dissection plane sections intersection iteration motion projection and folding and unfolding In addition to many figures illustrating theorems and their proofs a selection of photographs of three dimensional works of art and architecture are included Each chapter includes a selection of Challenges for the reader to explore further properties and applications It concludes with solutions to all the Challenges in the book references and a complete index Readers should be familiar with high school algebra plane and analytic geometry and trigonometry While brief appearances of calculus do occur no knowledge of calculus is necessary to enjoy this book

Convexity from the Geometric Point of View Vitor Balestro,Horst Martini,Ralph Teixeira,2024-07-14 This text gives a comprehensive introduction to the common core of convex geometry Basic concepts and tools which are present in all branches of that field are presented with a highly didactic approach Mainly directed to graduate and advanced undergraduates the book is self contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra Additionally it can be used as a single reference for a complete introduction to convex geometry and the content coverage is sufficiently broad that the

reader may gain a glimpse of the entire breadth of the field and various subfields The book is suitable as a primary text for courses in convex geometry and also in discrete geometry including polytopes It is also appropriate for survey type courses in Banach space theory convex analysis differential geometry and applications of measure theory Solutions to all exercises are available to instructors who adopt the text for coursework Most chapters use the same structure with the first part presenting theory and the next containing a healthy range of exercises Some of the exercises may even be considered as short introductions to ideas which are not covered in the theory portion Each chapter has a notes section offering a rich narrative to accompany the theory illuminating the development of ideas and providing overviews to the literature concerning the covered topics In most cases these notes bring the reader to the research front The text includes many figures that illustrate concepts and some parts of the proofs enabling the reader to have a better understanding of the geometric meaning of the ideas An appendix containing basic and geometric measure theory collects useful information for convex geometers

The Best Writing on Mathematics 2016 Mircea Pitici, 2017-03-07 The year's finest mathematics writing from around the world This annual anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2016 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 Burkard Polster shows how to invent your own variants of the Spot It card game Steven Strogatz presents young Albert Einstein's proof of the Pythagorean Theorem Joseph Dauben and Marjorie Senechal find a treasure trove of math in New York's Metropolitan Museum of Art and Andrew Gelman explains why much scientific research based on statistical testing is spurious In other essays Brian Greene discusses the evolving assumptions of the physicists who developed the mathematical underpinnings of string theory Jorge Almeida examines the misperceptions of people who attempt to predict lottery results and Ian Stewart offers advice to authors who aspire to write successful math books for general readers And there's much much more In addition to presenting the year's most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed

Symposium Proceedings Innovative Teaching Practices Janina Morska, Alan Rogerson, 2023-06-14 This volume contains the papers presented at the International Symposium Innovative Teaching Practices held on August 14-18 2023 in The Queen's College Oxford University The Symposium was organized by The Mathematics Education for the Future Project an international philanthropic project founded in 1986 and dedicated to innovation in mathematics science computer and statistics education

Methods of Solving Solid Geometry Problems Ellina Grigorieva, 2025-09-26 This textbook completes the author's series of

books on solving complex math problems and is aimed at developing readers geometric thinking to master the skills of solving solid geometry problems Written in a friendly manner it discusses many important and sometimes overlooked topics about polyhedra such as their cross sections unfolding inscribed and circumscribed solids and figures of revolution Over 350 unique problems with detailed solutions and hints are presented throughout the text many of which are solved in multiple ways to aid readers with different mathematical backgrounds If the problem is of historical significance or can be related to a similar problem solved in ancient times its original solution historical information about its creation and origin of its methods are also included Various applications of stereometry are also explored including those to chemistry molecular structures and crystallography For example using Euler's formula for a convex polyhedron the reader will learn how to explain the structure of various chemical compounds such as how to predict the shape of the truncated icosahedron for the C₆₀ fullerene molecule the most powerful antioxidant known today and to prove why the surface of any fullerene C_{2n} consists of $n/10$ regular hexagons and always only 12 regular pentagons Demonstrating the connections between different areas of mathematics *Methods of Solving Solid Geometry Problems* will be of interest to students who want to excel in math competitions and to those who aspire for greater mastery in linear algebra analytic geometry calculus and more advanced topics It can also be used by teachers to stimulate abstract thinking and bring out the originality of their students

Varieties of Integration C. Ray Rosentrater, 2015-12-31 Historical introduction The Riemann integral The Darboux integral A functional zoo Another approach measure theory The Lebesgue integral The Gauge integral Stieltjes type integrals and extensions A look back Afterword L² spaces and Fourier series

Geometría y diseño Claudi Alsina, 2024-01-05 Nuestro mundo es un mundo diseñado Presente a lo largo de la historia como una constante antropológica es a través del diseño ya sea artesanal o industrial que los humanos han ideado artilugios y transformado espacios buscando dar respuesta a diversos problemas y necesidades contribuyendo al progreso material de la humanidad El diseño es así una actividad muy matemática no solo porque se orienta a la resolución de problemas sino porque el enorme repertorio que constituyen las formas de lo útil responde a patrones geométricos La geometría resulta clave en la optimización eficiencia y apariencia estética de los objetos que nos rodean Este libro propone una aproximación al diseño de una variedad de distintos objetos muchos de ellos cotidianos a partir del estudio de sus formas geométricas centrando su atención en los cuerpos redondos tales como esferas conos y cilindros y polidricos así como en otros como los que dan forma a tenedores o paraguas a objetos plegables o muebles A través de numerosos ejemplos de diseño tan didácticos como divertidos nos invita a descubrir sus propiedades geométricas y a explorar las formas y funciones del diseño que inciden en su apariencia eficiencia y calidad

Century Illustrated Monthly Magazine ..., 1877

Demostraciones con encanto (eBook-ePub) Claudi Alsina i Català, Roger B. Nelsen, 2021-01-14 Esta obra presenta una colección de demostraciones notables en matemáticas elementales sobre números geometría desigualdades funciones origami teselaciones de una elegancia excepcional sucintas e ingeniosas A través de razonamientos sorprendentes o de potentes

representaciones visuales esperamos que esta selecci n de demostraciones invite a los lectores a disfrutar de la belleza de las matem ticas Adem s cada cap tulo concluye con desaf os al lector se plantean alrededor de ciento treinta a quien animamos a que busque por s mismo demostraciones con encanto y a compartir sus descubrimientos con otros The Journal of

Education ,1899 The Publishers Weekly ,1965 "The" Athenaeum ,1891 **International Books in Print** ,1990

The Athenaeum James Silk Buckingham,John Sterling,Frederick Denison Maurice,Henry Stebbing,Charles Wentworth Dilke,Thomas Kibble Hervey,William Hepworth Dixon,Norman Maccoll,Vernon Horace Rendall,John Middleton Murry,1886

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