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INTRODUÇÃO À GEOMETRIA PLANA AVANÇADA

João Vitor de Almeida Gonçalves Livro que visa fazer a ponte entre o ensino médio e os conteúdos de olimpíadas de matemática na área de geometria euclidiana. Definem-se os objetos da geometria a partir de postulados básicos sobre retas, paralelismo, ângulos e distância. No segundo capítulo, definem-se e são apresentados os principais resultados a respeito de círculos. No terceiro capítulo, define-se o que é homotetia e demonstra-se os principais resultados a respeito da transformação. No quarto capítulo, é introduzido o conceito de razão anarmônica e são demonstrados os principais resultados de projetiva aplicáveis à geometria euclidiana. No quinto capítulo, define-se a inversão no círculo. Há uma lista encadeada de teoremas e exercícios resolvidos, os quais espera-se dar base suficiente ao leitor para acostumá-lo com a disciplina.

ADVANCES IN HUMAN FACTORS, BUSINESS MANAGEMENT, TRAINING AND EDUCATION

PROCEEDINGS OF THE AHFE 2016 INTERNATIONAL CONFERENCE ON HUMAN FACTORS, BUSINESS MANAGEMENT AND SOCIETY, JULY 27-31, 2016, WALT DISNEY WORLD®, FLORIDA, USA

Springer This book reports on practical approaches for facilitating the process of achieving excellence in the management and leadership of organizational resources. It shows how the principles of creating shared value can be applied to ensure faster learning, training, business development, and social renewal. In particular, the book presents novel methods and tools for tackling the complexity of management and learning in both business organizations and society. It covers ontologies, intelligent management systems, methods for creating knowledge and value added. It gives novel insights into time management and operations optimization, as well as advanced methods for evaluating customers’ satisfaction and conscious experience.

Based on the AHFE 2016 International Conference on Human Factors, Business Management and Society, held on July 27-31, 2016, Walt Disney World®, Florida, USA, the book provides both researchers and professionals with new tools and inspiring ideas for achieving excellence in various business activities.

INTRODUCCIÓN A LA GEOMETRÍA, 2 EDICIÓN

Universidad del Norte

GEOMETRÍA PARA DISEÑO GRÁFICO

Universidad del Norte Este texto está dirigido a estudiantes de Diseño Gráfico, Arquitectura, Artes y básica secundaria. Su propósito es aplicar la geometría a algunas situaciones relacionadas con el diseño, tales como las vistas de un sólido, la proporción y el número áureo, sin perder la rigurosidad de los conceptos y propiedades de la geometría elemental.

INTRODUCCIÓN A LA GEOMETRÍA

Universidad del Norte Este texto está dirigido a estudiantes de arquitectura y diseño industrial o alumnos de secundaria que deseen complementar sus conocimientos sobre geometría elemental. Su propósito es aplicar la geometría a las dimensiones de objetos de la vida cotidiana, mediante la revisión de conceptos como semejanza, perímetro, área y volumen. Además, contiene una unidad para iniciar al alumno en el estudio de la suma de Vectores con el método del triángulo, y con el principio de equilibrio de una partícula.

ECO-ARCHITECTURE VIII

HARMONISATION BETWEEN ARCHITECTURE AND NATURE

WIT Press New opportunities for solving the challenges of contemporary architecture occur as a result of advances in the design and new building technologies, as well as the development of new materials. Many of the changes are motivated by a drive towards eco-architecture, trying to harmonise architectural products with nature. Another important issue is the adaptation of the architectural design to the natural environment, learning from nature and traditional construction techniques. Contemporary architecture is at the threshold of a new stage of evolution, deeply influenced by the advances in information and computer systems and the development of new materials and products, as well as construction processes that will drastically change the industry. Never before in history have architects and engineers had such a range of new processes and products open to them. In spite of that, the construction industry lags behind all others in taking advantage of a wide variety of new technologies. This is understandable, due to the inherent complexity and uniqueness of each architectural project. Advances in computer and information systems, including robotics, offers the possibility of developing new architectural forms, construction products and building technologies which are just now starting to emerge. Changes have also taken place in the way modern society works and lives,

due to the impact of modern technologies. Patterns of work have been disrupted and changed, affecting transportation and the home environment. The demand is for a new type of habitat that can respond to the changes and the consequent requirements in terms of the urban environment. This volume originates from the 8th International Conference on Harmonisation between Architecture and Nature and deals with topics such as building technologies, design by passive systems, design with nature, cultural sensitivity, life cycle assessment, resources and rehabilitation and many others including case studies from around the world.

APRENDA GEOMETRIA ESPACIAL COM RESOLUÇÃO DE PROBLEMAS

Cia do Ebook O livro apresenta uma proposta diferenciada de Aprender Geometria Espacial através da Resolução de exercícios com o objetivo de fortalecer e aprimorar seus conhecimentos nessa parte da Matemática. Ele foi organizado em sete capítulos (geometria de posição, poliedro, prisma, cilindro, pirâmide, cone e esfera) com exercícios desses conteúdos que, normalmente, são tratados em um curso de Geometria Espacial. Todos os problemas foram selecionados e listados, pelos autores, durante anos de trabalho em sala de aula. São apresentados com diferentes níveis de dificuldade e inclui questões de vestibulares e Enem. Para uma melhor visualização de figuras geométricas e representação de situações problemas foi utilizado o software de geometria dinâmica, Geogebra 3D. Em alguns problemas foram fornecidos dicas, lembretes e destaques com anotações importantes. Ao final do livro são listadas as respostas de todos os exercícios. Para complementar, oferecemos a possibilidade de ser adquirido um suplemento (Aprenda Geometria Espacial com Resolução de Exercícios-Respostas Comentadas) com todas as respostas comentadas para que as resoluções dos exercícios possam ser verificadas.

CORSO DI GEOMETRIA PRATICA APPLICATA ALL'ARTE DEL COSTRUTTORE ...

GEOMETRIA Y TRIGONOMETRIA - BALDOR

FROM CLASSICAL TO MODERN ALGEBRAIC GEOMETRY

CORRADO SEGRE'S MASTERSHIP AND LEGACY

Birkhäuser This book commemorates the 150th birthday of Corrado Segre, one of the founders of the Italian School of Algebraic Geometry and a crucial figure in the history of Algebraic Geometry. It is the outcome of a conference held in Turin, Italy. One of the book's most unique features is the inclusion of a previously unpublished manuscript by Corrado Segre, together with a scientific commentary. Representing a prelude to Segre's seminal 1894 contribution on the theory of algebraic curves, this manuscript and other important archival sources included in the essays shed new light on the eminent role he played at the international level. Including both survey articles and original research papers, the book is divided into three parts: section one focuses on the implications of Segre's work in a historic light, while section two presents new results in his field, namely Algebraic Geometry. The third part features Segre's unpublished notebook: Sulla Geometria Sugli Enti Algebrici Semplicemente

Infiniti (1890-1891). This volume will appeal to scholars in the History of Mathematics, as well as to researchers in the current subfields of Algebraic Geometry.

ICGG 2020 - PROCEEDINGS OF THE 19TH INTERNATIONAL CONFERENCE ON GEOMETRY AND GRAPHICS

Springer Nature This book covers various aspects of Geometry and Graphics, from recent achievements on theoretical researches to a wide range of innovative applications, as well as new teaching methodologies and experiences, and reinterpretations and findings about the masterpieces of the past. It is from the 19th International Conference on Geometry and Graphics, which was held in São Paulo, Brazil. The conference started in 1978 and is promoted by the International Society for Geometry and Graphics, which aims to foster international collaboration and stimulate the scientific research and teaching methodology in the fields of Geometry and Graphics. Organized five topics, which are Theoretical Graphics and Geometry; Applied Geometry and Graphics; Engineering Computer Graphics; Graphics Education and Geometry; Graphics in History, the book is intended for the professionals, academics and researchers in architecture, engineering, industrial design, mathematics and arts involved in the multidisciplinary field.

LEZIONI DI GEOMETRIA PROIETTIVA

INTRODUCCIÓN A LA PROPORCIÓN Y A LOS VECTORES

Universidad del Norte Este texto está dirigido a estudiantes de Diseño y Arquitectura, y de básica secundaria. Su propósito es mostrar las aplicaciones de la proporción en la escala y el diseño de escaleras y rampas, la aplicación de las funciones trigonométricas en las coordenadas solares (rumbo y acimut y, finalmente, algunas aplicaciones de los vectores y la operación suma. La mayoria de las aplicaciones presentadas en el libro están relacionadas con situaciones de la vida cotidiana, las cuales permiten establecer conexiones entre los temas y el mundo real.

GEOMETRIA FRACTAL & ATIVIDADES

RFB Editora Este livro possui dois eixos principais. No primeiro deles, o leitor é introduzido no mundo dos fractais e são apresentadas as limitações da geometria euclidiana para a descrição dos diferentes entes da natureza, sem, contudo, menosprezar a importância desta já bem consolidada área da matemática. As principais características que descrevem um fractal e um breve histórico a respeito do tema constituem ainda essa primeira parte do livro. No segundo momento, com todo o pragmatismo que lhe é pertinente, o autor propõe para o professor de matemática, uma série de atividades que permitirão a este explorar diversos conteúdos, tendo os fractais como tema transversal. Em cada uma destas atividades, foi tomado o cuidado de deixar explícitos os objetivos, auxiliando assim o professor em sua tarefa de dar a elas o correto direcionamento.

PROCEEDINGS OF THE THIRD CABRI GEOMETRY INTERNATIONAL CONFERENCE

Edizioni Nuova Cultura The Cabri software package, with its dynamic aspects, provides a very effective way to visualize, gain intuition, and understand in a simple and meaningful way many mathematical properties. It is an extremely useful tool both in the process of teaching and learning geometry. In this volume, we collect over one hundred contributed papers by qualified international experts, which offer a large and articulate panorama of the numerous ways to utilize Cabri. These papers also suggest new applications to improve both the teaching and the learning of geometry. The papers were originally delivered in talks presented during the Third Cabri International Conference held in Rome, Italy, from September 9 to 12, 2004, where 1543 registered participants came from 30 countries. The fruitful interaction of the participants, complemented by a rich collaboration of ideas and projects, stimulated the development of further applications in the course of the following years. All the papers have been revised by the authors in 2010. The book includes a CD ROM that contains the PDF version of all the contributions with active hypertext links to Cabri Géomètre II Plus and Cabri 3D files. The software Cabri Géomètre II Plus and Cabri 3D are not included.

LEZIONI DI GEOMETRIA INTRINSECA

MAPLE IN MATHEMATICS EDUCATION AND RESEARCH

4TH MAPLE CONFERENCE, MC 2020, WATERLOO, ONTARIO, CANADA, NOVEMBER 2–6, 2020, REVISED SELECTED PAPERS

Springer Nature This book constitutes refereed proceedings of the 4th Maple Conference, MC 2020, held in Waterloo, Ontario, Canada, in November 2020. The 25 revised full papers and 3 short papers were carefully reviewed and selected out of 75 submissions, one invited paper is also presented in the volume. The papers included in this book cover topics in education, algorithms, and applciations of the mathematical software Maple.

LEAVITT PATH ALGEBRAS

Springer This book offers a comprehensive introduction by three of the leading experts in the field, collecting fundamental results and open problems in a single volume. Since Leavitt path algebras were first defined in 2005, interest in these algebras has grown substantially, with ring theorists as well as researchers working in graph C*-algebras, group theory and symbolic dynamics attracted to the topic. Providing a historical perspective on the subject, the authors review existing arguments, establish new results, and outline the major themes and ring-theoretic concepts, such as the ideal structure, Z-grading and the close link between Leavitt path algebras and graph C*-algebras. The book also presents key lines of current research, including the Algebraic Kirchberg Phillips Question, various additional classification questions, and connections to noncommutative algebraic geometry.

Leavitt Path Algebras will appeal to graduate students and researchers working in the field and related areas, such as C*-algebras and symbolic dynamics. With its descriptive writing style, this book is highly accessible.

THE LEGACY OF MARIO PIERI IN GEOMETRY AND ARITHMETIC

Springer Science & Business Media This book is the first in a series of three volumes that comprehensively examine Mario Pieri's life, mathematical work and influence. The book introduces readers to Pieri's career and his studies in foundations, from both historical and modern viewpoints. Included in this volume are the first English translations, along with analyses, of two of his most important axiomatizations — one in arithmetic and one in geometry. The book combines an engaging exposition, little-known historical notes, exhaustive references and an excellent index. And yet the book requires no specialized experience in mathematical logic or the foundations of geometry.

GEOMETRIA PIANA DI GIUSEPPE MESSI

GEOMETRÍA EN LAS MOCHILAS ARHUACAS

POR UNA ENSEÑANZA DE LAS MATEMÁTICAS DESDE UNA PERSPECTIVA CULTURAL

Programa Editorial UNIVALLE Este libro es el producto principal de un trabajo de investigación en etnomatemática. Se considera la primera tesis en etnomatemática que se hace en Colombia en un nivel de maestría. El objetivo general fue construir una propuesta de enseñanza de geometría, específicamente de geometría transformacional, para los indígenas arhuacos de la Sierra Nevada de Santa Marta, ubicadas al norte de Colombia. Ella tuvo en cuenta el pensamiento matemático que se da en la práctica del tejido de dieciséis figuras tradicionales que se tejen en la parte lateral de las mochilas. Además, se dio una aproximación a la relación existente entre ese pensamiento matemático y el contexto sociocultural que le dio origen (cada análisis estuvo ligado al simbolismo de cada figura). Se podría establecer que la propuesta metodológica consiste en tres dimensiones sucesivas: 1) una dimensión perceptual que nos permite identificar un objeto (donde circulen ideas matemáticas ligadas a un pensamiento simbólico) que tenga un significado social y cultural en la comunidad, 2) una segunda dimensión que permite identificar formas en el objeto (ligadas a colores, técnicas, etc.), a partir de una deconstrucción geométrica que identifica el patrón figural (trazos básicos), que generan la figura constituyente y la figura tradicional, y 3) aquella dimensión que nos permite identificar la estructura de orden de las configuraciones geométricas, es decir, los patrones geométricos que dan una aproximación a la concepción cosmológica de las indígenas arhuacas, a su forma de ordenar la naturaleza.

LEZIONI DI GEOMETRIA 1

TREZE VIAGENS PELO MUNDO DA MATEMÁTICA

Universidade do Porto

GEOMETRÍA AFÍN Y PROYECTIVA

EDITORIAL SANZ Y TORRES S.L.

IMAGINE MATH 8

DREAMING VENICE

Springer Nature This eighth volume of Imagine Math is different from all the previous ones. The reason is very clear: in the last two years, the world changed, and we still do not know what the world of tomorrow will look like. Difficult to make predictions. This volume has a subtitle Dreaming Venice. Venice, the dream city of dreams, that miraculous image of a city on water that resisted for hundreds of years, has become in the last two years truly unreachable. Many things tie this book to the previous ones. Once again, this volume also starts like Imagine Math 7, with a homage to the Italian artist Mimmo Paladino who created exclusively for the Imagine Math 8 volume a new series of ten original and unique works of art dedicated to Piero della Francesca. Many artists, art historians, designers and musicians are involved in the new book, including Linda D. Henderson and Marco Pierini, Claudio Ambrosini and Davide Amodio. Space also for comics and mathematics in a Disney key. Many applications, from Origami to mathematical models for world hunger. Particular attention to classical and modern architecture, with Tullia Iori. As usual, the topics are treated in a way that is rigorous but captivating, detailed and full of evocations. This is an all-embracing look at the world of mathematics and culture.

ANALYSIS OF ELECTRICAL CIRCUITS WITH VARIABLE LOAD REGIME PARAMETERS

PROJECTIVE GEOMETRY METHOD

Springer This book introduces electric circuits with variable loads and voltage regulators. It allows to define invariant relationships for various parameters of regime and circuit sections and to prove the concepts characterizing these circuits. Generalized equivalent circuits are introduced. Projective geometry is used for the interpretation of changes of operating regime parameters. Expressions of normalized regime parameters and their changes are presented. Convenient formulas for the calculation of currents are given. Parallel voltage sources and the cascade connection of multi-port networks are described. The two-value voltage regulation characteristics of loads with limited power of voltage source is considered. The book presents the fundamentals of electric circuits and develops circuit theorems. It is useful to engineers, researchers and graduate students who are interested in the basic electric circuit theory and the regulation and monitoring of power supply systems.

MECHANISMS FOR GENERATING MATHEMATICAL CURVES

Springer Nature This book focuses on important mathematical considerations in describing the synthesis of original mechanisms for generating curves. The synthesis is manual and not based on the use of computer tools. Kinematics is applied to

confirm the drawing of the curves, and the closed loop method, and in some cases the distances method, is applied in this phase. The book provides all the notions of structure and kinematics that are necessary to calculate the mechanisms and also analyzes other kinematic possibilities of the created mechanisms. Offering a concise, yet self-contained guide to the mathematical fundamentals for mechanisms of curve generation, together with a useful collection of mechanisms exercises, the book is intended for students learning about mechanism kinematics, as well as engineers dealing with mechanism design and analysis. It is based on the authors' many years of research, which has been published in different books and journals, mainly, but not exclusively, in Romanian.

XLVII CONGRESO NACIONAL DE LA SMM: GEOMETRÍA ALGEBRAICA

Fausto Trujillo Programa del XLVII Congreso Nacional de la Sociedad Matemática Mexicana correspondiente al área de Geometría Algebraica celebrado en la ciudad de Durango, Durango.

XLVII CONGRESO NACIONAL DE LA SMM: GEOMETRÍA DIFERENCIAL

Fausto Trujillo Programa del XLVII Congreso Nacional de la Sociedad Matemática Mexicana correspondiente al área de Análisis Numérico y Optimización celebrado en la ciudad de Durango, Durango.

ALGEBRAIC GEOMETRY

Springer Science & Business Media An introduction to abstract algebraic geometry, with the only prerequisites being results from commutative algebra, which are stated as needed, and some elementary topology. More than 400 exercises distributed throughout the book offer specific examples as well as more specialised topics not treated in the main text, while three appendices present brief accounts of some areas of current research. This book can thus be used as textbook for an introductory course in algebraic geometry following a basic graduate course in algebra. Robin Hartshorne studied algebraic geometry with Oscar Zariski and David Mumford at Harvard, and with J.-P. Serre and A. Grothendieck in Paris. He is the author of "Residues and Duality", "Foundations of Projective Geometry", "Ample Subvarieties of Algebraic Varieties", and numerous research titles.

ONTOSOPHYX

Lulu.com

CUADERNOS CAPICÚA. GEOMETRÍA 1

Cuadernos de matemáticas para Educación Infantil. Para desarrollar el pensamiento matemático de los alumnos y las competencias básicas. Trabajan las capacidades: identificar, relacionar y operar. Son cuadernos para ser trabajados después de la observación del entorno y de la manipulación. En los tres cuadernos de geometría se trabajan las posiciones dentro y fuera, encima y debajo, delante y detrás, en medio

de, etc; las formas, las figuras geométricas y los cuerpos. Así como giros, simetrías y traslaciones.

GEOMETRIE NON EUCLIDEE

Alpha Test

KISELEV'S GEOMETRY

STEREOMETRY

This volume completes the English adaptation of a classical Russian textbook in elementary Euclidean geometry. The 1st volume subtitled "Book I. Planimetry" was published in 2006 (ISBN 0977985202). This 2nd volume (Book II. Stereometry) covers solid geometry, and contains a chapter on vectors, foundations, and introduction in non-Euclidean geometry added by the translator. The book intended for high-school and college students, and their teachers. Includes 317 exercises, index, and bibliography.

LESBIAN REALITIES/LESBIAN FICTIONS IN CONTEMPORARY SPAIN

Bucknell University Press Lesbian Realities/Lesbian Fictions in Contemporary Spain focuses exclusively on manifestations of lesbian cultures and identities in contemporary Spain. Bringing together key essays from a range of international scholars, this anthology of critical essays examines the changing cultural, sociological and political landscape of Spain at the turn of the millennium. Divided into two sections, the first contributions focus on the realities of lesbian lives and looks at how Spanish lesbian identities are constructed through language and the media. The essays in the second section analyze contemporary lesbian identities as manifested in novels and short stories published since the late 1980s by authors such as Carme Riera, Lola van Guardia, Flavia Company and Mabel GalOn. The aim of this volume is to provide a significant and coherent contribution in English to the body of knowledge within an evolving subject area that has remained relatively under-researched until recently. This is an invaluable publication for teachers and students of Spanish cultural studies, global sexuality and gender studies.

LECTURES ON CURVES, SURFACES AND PROJECTIVE VARIETIES

A CLASSICAL VIEW OF ALGEBRAIC GEOMETRY

European Mathematical Society This book offers a wide-ranging introduction to algebraic geometry along classical lines. It consists of lectures on topics in classical algebraic geometry, including the basic properties of projective algebraic varieties, linear systems of hypersurfaces, algebraic curves (with special emphasis on rational curves), linear series on algebraic curves, Cremona transformations, rational surfaces, and notable examples of special varieties like the Segre, Grassmann, and Veronese varieties. An integral part and special feature of the presentation is the inclusion of many exercises, not easy to find in the literature and almost all with complete solutions. The text is aimed at students in the last two years of an

undergraduate program in mathematics. It contains some rather advanced topics suitable for specialized courses at the advanced undergraduate or beginning graduate level, as well as interesting topics for a senior thesis. The prerequisites have been deliberately limited to basic elements of projective geometry and abstract algebra. Thus, for example, some knowledge of the geometry of subspaces and properties of fields is assumed. The book will be welcomed by teachers and students of algebraic geometry who are seeking a clear and panoramic path leading from the basic facts about linear subspaces, conics and quadrics to a systematic discussion of classical algebraic varieties and the tools needed to study them. The text provides a solid foundation for approaching more advanced and abstract literature.

XOVETIC 2019

MDPI This issue of Proceedings gathers papers presented at XOVETIC2019 (A Coruña, Spain, 5-6 September 2019), a conference with the main goal of bringing together young researchers working in big data, artificial intelligence, Internet of Things, HPC(High-performance computing), cybersecurity, bioinformatics, natural language processing, 5G and others areas from the field of ICT (Information Communications Technology), and offering a platform to present the results of their research to a national audience in Galicia and north of Portugal. This second edition aims to serve as the basis of this event, which will be consolidated over time and acquire international projection. The conference is co-funded by Xunta de Galicia and European Union. European Regional Development Fund (ERDF).

SACRED GEOMETRY

eBook Partnership Is there a secret visual language all around us? What's so special about the shape of the Great Pyramid? Why is there something so sixy about circles? How many ways can you tile the plane? Lavishly illustrated by the author, this enchanting small introduction to one of the oldest and most widely-used ancient traditions on Earth will forever change the way you look at a triangle, arch, window, fabric repeat, ceramic pattern, graphic design, painting, spiral or flower. WOODEN BOOKS are small but packed with information. "e;Fascinating"e; FINANCIAL TIMES. "e;Beautiful"e; LONDON REVIEW OF BOOKS. "e;Rich and Artful"e; THE LANCET. "e;Genuinely mind-expanding"e; FORTEAN TIMES. "e;Excellent"e; NEW SCIENTIST. "e;Stunning"e; NEW YORK TIMES. Small books, big ideas.

GEOMETRY, TOPOLOGY AND PHYSICS

Taylor & Francis Differential geometry and topology have become essential tools for many theoretical physicists. In particular, they are indispensable in theoretical studies of condensed matter physics, gravity, and particle physics. Geometry, Topology and Physics, Second Edition introduces the ideas and techniques of differential geometry and topology at a level suitable for postgraduate students and researchers in these fields. The second edition of this popular and established text incorporates a number of changes designed to meet the needs of the reader and reflect the development of the subject. The book features a considerably expanded first chapter, reviewing aspects of path integral quantization and gauge theories.

Chapter 2 introduces the mathematical concepts of maps, vector spaces, and topology. The following chapters focus on more elaborate concepts in geometry and topology and discuss the application of these concepts to liquid crystals, superfluid helium, general relativity, and bosonic string theory. Later chapters unify geometry and topology, exploring fiber bundles, characteristic classes, and index theorems. New to this second edition is the proof of the index theorem in terms of supersymmetric quantum mechanics. The final two chapters are devoted to the most fascinating applications of geometry and topology in contemporary physics, namely the study of anomalies in gauge field theories and the analysis of Polakov's bosonic string theory from the geometrical point of view. Geometry, Topology and Physics, Second Edition is an ideal introduction to differential geometry and topology for postgraduate students and researchers in theoretical and mathematical physics.

FACES OF GEOMETRY

II EDITION

Springer Nature The volume reports on interdisciplinary discussions and interactions between theoretical research and practical studies on geometric structures and their applications in architecture, the arts, design, education, engineering, and mathematics. These related fields of research can enrich each other and renew their mutual interest in these topics through networks of shared inspiration, and can ultimately enhance the quality of geometry and graphics education. Particular attention is dedicated to the contributions that women have made to the scientific community and especially mathematics. The book introduces engineers, architects and designers interested in computer applications, graphics and geometry to the latest advances in the field, with a particular focus on science, the arts and mathematics education.