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illustrated study focuses on attempts by ancient greeks to solve three classical problems cube duplication angle trisection and circle quadrature origins of the study of conics introduction of special mechanical curves more 1986 edition

this volume investigates the evolution of the geometry curriculum in the united states over the past 150 years a primary goal is to increase awareness of the shape and nature of the current geometry curriculum by explaining how things have come to be as they are given the limited access to first hand accounts of the enacted geometry curriculum during the past 150 years the monograph relies on textbooks to provide a record of the implemented curriculum at any given point in time policy documents can provide insight into the choices made in textbooks by hinting at the issues considered and the recommendations made the monograph is organized in a chronological sequence of notable events leading to discernable changes in thinking about the geometry curriculum over the past century and a half roughly the extent of time during which geometry has been taught in american schools notable events include important reports or commissions influential texts new schools of thought and developments in learning technologies these events affected among other things content and aims of the geometry curriculum the nature of mathematical activity as construed by both mathematicians and mathematics educators and the resources students are given for engaging in mathematical activity before embarking through the notable events it is necessary to consider the big bang of geometry namely the moment in time that shaped the future life of the geometry curriculum this corresponds to the emergence of euclidean geometry given its influence on the shape of the geometry curriculum familiarity with the nature of the geometry articulated in euclid's elements is essential to understanding the many tensions that surround the school geometry curriculum several themes emerge over the course of the monograph and include the aims and means of the geometry curriculum the importance of proof in geometry the role of visualization and tactile experiences the fusion between solid and plane geometry the curricular connections between geometry and algebra and the use of motion and continuity the intended audience would include curriculum developers researchers teachers and curriculum supervisors

high above the noise and traffic of metropolitan phoenix native american rock art offers mute testimony that another civilization once thrived in the arizona desert in the city s south mountains prehispanic peoples pecked thousands of images into the mountains boulders and outcroppings images that today s hikers can encounter with every bend in the trail todd bostwick an archaeologist who has studied the hohokam for more than twenty years and peter krocek a professional photographer with a passion for archaeology have combed the south mountains to locate nearly all of the ancient petroglyphs found in the canyons and ridges their years of learning the landscape and investigating the ancient designs have resulted in a book that explores this wealth of prehistoric rock art within its natural and cultural contexts revealing what these carvings might mean how they got there and when they were made landscape of the spirits is the first book to cover these ancient images and is one of the most comprehensive treatments of a rock art location ever published it conveys the range of different rock art elements and compositions found in the south mountains animals humans and geometric shapes as well as celestial and calendrical markings at key sites through accurate descriptions drawings and photographs interpretations of the petroglyphs are based on native american ethnographic accounts and consider the most recent theories concerning shamanism and archaeoastronomy written in a simple and accessible style landscape of the spirits is an indispensable volume for anyone exploring the south mountains and for rock art enthusiasts everywhere who wish to broaden their understanding of the prehistoric world it is both an authoritative overview of these ancient wonders and an unprecedented benchmark in southwestern rock art research at a single geographic location

the plains region that stretches from northern colorado to southern alberta and from the rockies to the western dakotas is the land of the cheyenne and the blackfeet the crow and the sioux its rolling grasslands and river valleys have nurtured human cultures for thousands of years on cave walls glacial boulders and riverside cliffs native people recorded their ceremonies vision quests battles and daily activities in the petroglyphs and pictographs they incised pecked or painted onto the stone surfaces in this vast landscape some rock art sites were clearly intended for communal use others just as clearly mark the occurrence of a private spiritual encounter elders often used rock art such as complex depictions of hunting to teach traditional knowledge and skills to the young other sites document the medicine powers and brave deeds of famous warriors some plains rock art goes back more than 5 000 years some forms were made continuously over many centuries archaeologists james keyser and michael klassen show us the origins diversity and beauty of plains rock art the seemingly endless variety of images include humans animals of all kinds weapons masks mazes handprints finger lines geometric and abstract forms tally marks hoofprints and the wavy lines and starbursts that humans universally associate with trancelike states plains indian rock art is the ultimate guide to the art form it covers the natural and archaeological history of the northwestern plains explains rock art forms techniques styles terminology and dating and offers interpretations of images and compositions

this book presents a comprehensive framework for applying digital technologies to heritage conservation it begins by developing a knowledge path of cultural heritage buildings through methods such as 3d laser scanning photogrammetry and heritage building information modeling hbim and then leverages this data for the assessment and management of both rapid and slow onset disasters to this purpose multi scale vulnerability and risk assessment methodologies particularly concerning seismic and climate change hazards are used to support the planning of risk mitigation strategies to protect heritage buildings from sudden and long term threats adopting a multidisciplinary and multi scale perspective the volume bridges the gap between architectural knowledge structural analysis and environmental risk management it offers a practical and replicable model that integrates both traditional and innovative methods aiming to preserve historical and cultural value while addressing contemporary conservation challenges furthermore the proposed framework supports the creation of a centralized digital platform empowering heritage professionals policymakers and communities to make informed decisions regarding mitigation strategies by combining technological innovation with established methodologies this book provides tools and resources for safeguarding heritage buildings for future generations

the main focus of this unique book is an in depth examination of the polygonal technique the primary method used by master artists of the past in creating islamic geometric patterns the author details the design methodology responsible for this all but lost art form and presents evidence for its use from the historical record both of which are vital contributions to the understanding of this ornamental tradition additionally the author examines the historical development of islamic geometric patterns the significance of geometric design within the broader context of islamic ornament as a whole the formative role that geometry plays

throughout the islamic ornamental arts including calligraphy the floral idiom dome decoration geometric patterns and more and the underexamined question of pattern classification featuring over 600 beautiful color images islamic geometric patterns their historical development and traditional methods of construction is a valuable addition to the literature of islamic art architecture and geometric patterns this book is ideal for students and scholars of geometry the history of mathematics and the history of islamic art architecture and culture in addition artists designers craftspeople and architects will all find this book an exceptionally informative and useful asset in their fields jay bonner is an architectural ornamentalist and unaffiliated scholar of islamic geometric design he received his mdes from the royal college of art in london 1983 he has contributed ornamental designs for many international architectural projects including the expansion of both the al masjid al haram grand mosque in mecca and the al masjid an nawabi prophet s mosque in medina as well the tomb of sheikh hujwiri in lahore and the ismaili centre in london to name but a few he is committed to the revitalization of islamic geometric design through the teaching of traditional methodological practices to this end in addition to publishing jay bonner has lectured and taught design seminars at many universities and conferences in north america europe north africa and asia

this book is the most comprehensive treatment of the art of syria in the third millennium b c it is a catalogue of nearly 600 seals from tell brak combined with a general study of the comparative material it is both a basic word of reference and a new synthesis of the syrian early bronze age relate to taxation during the new kingdom

kimono is a generic term for traditional japanese clothing it means thing to wear this book provides an overview of some traditional garments introduces types of designs found in twentieth century kimono that are still available and presents wearable art inspired by kimono from contemporary artists over 525 color photographs display brilliant and subtle textile designs and demonstrate beauty in mens womens and childrens garments and accessories

athenian governance and culture are reconstructed from the bronze age into the historical era based on traditions archaeological contexts and remains foremost the formal commensal and libation krater

this book constitutes the referred proceedings of the 8th china conference on image and graphics technologies and applications igta 2014 held in beijing china in june 2014 the 39 papers presented were carefully reviewed and selected from 110 submissions they cover various aspects of research in image processing and graphics and related topics including object detection pattern recognition object tracking classification image segmentation reconstruction etc

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Introduction

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