



# MATHEMATICS AND THE DIVINE

## A Historical Study

T. Koetsier, L. Bergmans  
Editors

# Mathematics And The Divine A Historical Study

**Angela Axworthy**



## **Mathematics And The Divine A Historical Study:**

**Mathematics and the Divine** Teun Koetsier, Luc Bergmans, 2004-12-09 Mathematics and the Divine seem to correspond to diametrically opposed tendencies of the human mind Does the mathematician not seek what is precisely defined and do the objects intended by the mystic and the theologian not lie beyond definition Is mathematics not Man's search for a measure and isn't the Divine that which is immeasurable The present book shows that the domains of mathematics and the Divine which may seem so radically separated have throughout history and across cultures proved to be intimately related Religious activities such as the building of temples the telling of ritual stories or the drawing of enigmatic figures all display distinct mathematical features Major philosophical systems dealing with the Absolute and theological speculations focussing on our knowledge of the Ultimate have been based on or inspired by mathematics A series of chapters by an international team of experts highlighting key figures schools and trains of thought is presented here Chinese number mysticism the views of Pythagoras and Plato and their followers Nicholas of Cusa's theological geometry Spinozism and intuitionism as a philosophy of mathematics are treated side by side among many other themes in an attempt at creating a global view on the relation of mathematics and Man's quest for the Absolute in the course of history Mathematics and man's quest for the Absolute A selective history highlighting key figures schools and trains of thought An international team of historians presenting specific new findings as well as general overviews Confronting and uniting otherwise compartmentalized information

*Abraham's Dice* Karl Giberson, 2016 Most of us believe everything happens for a reason Whether it is God's will karma or fate we want to believe that nothing in the world especially disasters and tragedies is a random meaningless event But now as never before confident scientific assertions that the world embodies a profound contingency are challenging theological claims that God acts providentially in the world The random and meandering path of evolution is widely used as an argument that God did not create life Abraham's Dice explores the interplay between chance and providence in the monotheistic religious traditions looking at how their interaction has been conceptualized as our understanding of the workings of nature has changed This lively historical conversation has generated intense ongoing theological debates and provocative responses from science what are we to make of the history of our universe where chance and law have played out in complex ways Or the evolution of life where random mutations have challenged attempts to find purpose within evolution and convinced many that human beings are but a glorious accident The enduring belief that everything happens for a reason is examined through a conversation with major scholars among them holders of prestigious chairs at Oxford and Cambridge Universities and the University of Basel as well as several Gifford lecturers and two Templeton prize winners Organized historically Abraham's Dice provides a wide ranging scientific theological and biblical foundation to address the question of providence and divine action in a world shot through with contingency

**Investigations into Living Systems, Artificial Life, and Real-World Solutions** Magoulas, George D., 2013-04-30 This

book provides original research on the theoretical and applied aspects of artificial life as well as addresses scientific psychological and social issues of synthetic life like behavior and abilities Provided by publisher *Handbook of the History and Philosophy of Mathematical Practice* Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersh University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very

strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes études Scientifiques

**Ancient Greece and Rome in Videogames** Ross Clare, 2021-06-03 This volume presents an original framework for the study of video games that use visual materials and narrative conventions from ancient Greece and Rome It focuses on the culturally rich continuum of ancient Greek and Roman games treating them not just as representations but as functional interactive products that require the player to interpret communicate with and alter them Tracking the movement of such concepts across different media the study builds an interconnected picture of antiquity in video games within a wider transmedial environment Ancient Greece and Rome in Videogames presents a wide array of games from several different genres ranging from the blood spilling violence of god killing and gladiatorial combat to meticulous strategizing over virtual Roman Empires and often bizarre adventures in pseudo ancient places Readers encounter instances in which players become intimately engaged with the epic mode of spectacle in God of War moments of negotiation with colonised lands in Rome Total War and Imperium Romanum and multi layered narratives rich with ancient traditions in games such as Eleusis and Salammbo The case study approach draws on close analysis of outstanding examples of the genre to uncover how both representation and gameplay function in such ancient games

Discovering the Vedas Frits Staal, 2008 In this unprecedented guide to the Vedas Frits Staal the celebrated author of Agni The Vedic Ritual of the Fire Altar and Universals Studies in Indian Logic and Linguistics examines almost every aspect of these ancient sources of Indic civilisation Staal extracts concrete information from the Oral Tradition and Archaeology about Vedic people and their language what they thought and did and where they went and when He provides essential information about the Vedas and includes selections and translations Staal sheds light on mantras and rituals that contributed to what came to be known as Hinduism Significant is a modern analysis of what we can learn from the Vedas today the original forms of the Vedic sciences as well as the perceptive wisdom of the composers of the Vedas The author puts Vedic civilisation in a global perspective through a wide ranging comparison with other Indic philosophies and religions primarily Buddhism For Staal originally a logician the voyage of discovering the Vedas is like unpeeling an onion but without the certainty of reaching an end Even so his book shows that the Vedas have a logic all their own Accessible finely argued and with a wealth of information and insight Discovering the Vedas is for both the scholar and the interested lay reader

Jewish Culture in Early Modern Europe Richard I. Cohen, Natalie B. Dohrmann, Elchanan Reiner, Adam Shear, 2014-12-31 David B Ruderman's groundbreaking studies of Jewish intellectuals as they engaged with Renaissance humanism the Scientific Revolution and the Enlightenment have set the agenda for a distinctive historiographical approach to Jewish culture in early modern Europe from 1500 to 1800 From his initial studies of Italy to his later work on eighteenth century English German and Polish Jews Ruderman has emphasized the individual as a representative or exemplary figure through whose life and career the problems of a period and cultural

context are revealed Thirty one leading scholars celebrate Ruderman s stellar career in essays that bring new insight into Jewish culture as it is intertwined in Jewish European Ottoman and American history The volume presents probing historical snapshots that advance refine and challenge how we understand the early modern period and spark further inquiry Key elements explored include those inspired by Ruderman s own work the role of print the significance of networks and mobility among Jewish intellectuals the value of extraordinary individuals who absorbed and translated so called external traditions into a Jewish idiom and the interaction between cultures through texts and personal encounters of Jewish and Christian intellectuals While these elements can be found in earlier periods of Jewish history Ruderman and his colleagues point to an intensification of mobility the dissemination of knowledge and the blurring of boundaries in the early modern period These studies present a rich and nuanced portrait of a Jewish culture that is both a contributing member and a product of early modern Europe and the Ottoman Empire As director of the Herbert D Katz Center for Advanced Judaic Studies at the University of Pennsylvania Ruderman has fostered a community of scholars from Europe North America and Israel who work in the widest range of areas that touch on Jewish culture He has worked to make Jewish studies an essential element of mainstream humanities The essays in this volume are a testament to the haven he has fostered for scholars which has and continues to generate important works of scholarship across the entire spectrum of Jewish history

**God's Providence and Randomness in Nature** Robert John Russell, Joshua M. Moritz, 2019-02-11 In October 2014 a group of mathematicians physicists ecologists philosophers and theologians gathered at a special conference in Berkeley California to present the results of a two year research program dubbed Project SATURN This program explored many rich avenues of thought at the intersection of modern science and Christian theology Chief among them is the possibility that specific processes might be so complex that they do not have sufficient physical causes Known as ontological indeterminism this idea has profound implications for theology Specifically it allows God to be thought of as acting providentially within nature without violating the laws and processes of nature Such a momentous insight could influence how we understand free will natural evil suffering in nature and the relation between divine providence and human evolution The essays collected here discussed these topics and were initially presented at the 2014 conference Part I establishes the scientific basis for conceptualizing specific processes in the universe as inherently random and possibly indeterministic Part II discusses the philosophical and theological issues that spring from this understanding Together they represent the cutting edge of thought in the increasingly productive dialogue between science and theology Short for the Scientific and Theological Understandings of Randomness in Nature Project SATURN was created by the Center for Theology and the Natural Sciences a Program of the Graduate Theological Union Berkeley It was funded with a grant administered by Calvin College and provided by the John Templeton Foundation

*God Very Probably* Robert H Nelson, 2016-04-28 In recent years a number of works have appeared with important implications for the age old question of the existence of a god These writings many of which are not by

theologians strengthen the rational case for the existence of a god even as this god may not be exactly the Christian God of history This book brings together for the first time such recent diverse contributions from fields such as physics the philosophy of human consciousness evolutionary biology mathematics the history of religion and theology Based on such new materials as well as older ones from the twentieth century it develops five rational arguments that point strongly to the very probable existence of a god They do not make use of the scientific method which is inapplicable to the question of a god Rather they are in an older tradition of rational argument dating back at least to the ancient Greeks For those who are already believers the book will offer additional rational reasons that may strengthen their belief Those who do not believe in the existence of a god at present will encounter new rational arguments that may cause them to reconsider their opinion

*A History of Kinematics from Zeno to Einstein* Teun Koetsier, 2023-09-26 This book covers the history of kinematics from the Greeks to the 20th century It shows that the subject has its roots in geometry mechanics and mechanical engineering and how it became in the 19th century a coherent field of research for which Ampère coined the name kinematics The story starts with the important Greek tradition of solving construction problems by means of kinematically defined curves and the use of kinematical models in Greek astronomy As a result in 17th century mathematics motion played a crucial role as well and the book pays ample attention to it It is also discussed how the concept of instantaneous velocity unknown to the Greeks etc was introduced in the late Middle Ages and how in the 18th century when classical mechanics was formed kinematical theorems concerning the distribution of velocity in a solid body moving in space were proved The book shows that in the 19th century against the background of the industrial revolution the theory of machines and thus the kinematics of mechanisms received a great deal of attention In the final analysis this led to the birth of the discipline **Making Mathematical Culture** Richard

J. Oosterhoff, 2018-07-25 In 1503 for the first time a student in Paris was able to spend his entire university career studying only the printed textbooks of his teacher thanks to the works of the humanist and university reformer Jacques Lefèvre d'Étaples c 1455-1536 As printed books became central to the intellectual habits of following generations Lefèvre turned especially to mathematics as a way to renovate the medieval university **Making Mathematical Culture** argues this was a pivotal moment in the cultural history of Europe and explores how the rise of the printed book contributed to the growing profile of mathematics in the region Using student manuscripts and annotated books **Making Mathematical Culture** offers a new account of printed textbooks as jointly made by masters and students and how such collaborative practices informed approaches to mathematics **John Wallis: Writings on Music** David Cram, 2017-07-05 John Wallis 1616-1703 was one of the foremost British mathematicians of the seventeenth century and is also remembered for his important writings on grammar and logic An interest in music theory led him to produce translations into Latin of three ancient Greek texts those of Ptolemy Porphyry and Bryennius and involved him in discussions with Henry Oldenburg the Secretary of the Royal Society Thomas Salmon and other individuals as his ideas developed The texts presented in this volume cover the relationship of

ancient and modern tuning theory the building of organs the phenomena of resonance and other musical topics

**Islamicate Occult Sciences in Theory and Practice** ,2020-11-16 Islamicate Occult Sciences in Theory and Practice brings together the latest research on Islamic occult sciences from a variety of disciplinary perspectives namely intellectual history manuscript studies and material culture Its aim is not only to showcase the range of pioneering work that is currently being done in these areas but also to provide a model for closer interaction amongst the disciplines constituting this burgeoning field of study Furthermore the book provides the rare opportunity to bridge the gap on an institutional level by bringing the academic and curatorial spheres into dialogue Contributors include Charles Burnett Jean Charles Coulon Maryam Ekhtiar Noah Gardiner Christiane Gruber Bink Hallum Francesca Leoni Matthew Melvin Koushki Michael Noble Rachel Parikh Liana Saif Maria Subtelny Farouk Yahya and Travis Zadeh

**Composing the World** Andrew James Hicks,2017 Taking in hand the current discovery that we can listen to the cosmos Andrew Hicks argues that sound and the harmonious coordination of sounds sources and listeners has always been an integral part of the history of studying the cosmos In Composing the World Hicks presents a narrative tour through medieval Platonic cosmology with reflections on important philosophical movements along the way The book will resonate with a variety of readers and it encourages us to rethink the role of music and sound within our greater understanding of the universe

Optimization in Chemical Engineering Fernando Israel Gómez-Castro,Vicente Rico-Ramírez,2025-04-21 Optimization is an area in constant evolution The search for robust optimization techniques to deal with the highly non convex models that represent the systems related to Chemical Engineering has led to important advances in the area The need for developing economically feasible processes which are simultaneously environmentally friendly safe and controllable requires for adequate optimization strategies Moreover finding a global optimum is still a challenge for a diversity of cases Thus this book presents a compilation of classic and emerging optimization techniques focusing on their application to systems related to the Chemical Engineering The book shows the applications of classic mathematical programming metaheuristic optimization methods and machine learning based strategies The analysis of the described techniques allows the reader identifying the advantages and disadvantages of each approach Moreover the book will discuss the perspectives for future developments on the area

**Motion and Genetic Definitions in the Sixteenth-Century Euclidean Tradition** Angela Axworthy,2022-06-11 A significant number of works have set forth over the past decades the emphasis laid by seventeenth century mathematicians and philosophers on motion and kinematic notions in geometry These works demonstrated the crucial role attributed in this context to genetic definitions which state the mode of generation of geometrical objects instead of their essential properties While the growing importance of genetic definitions in sixteenth century commentaries on Euclid s Elements has been underlined the place uses and status of motion in this geometrical tradition has however never been thoroughly and comprehensively studied This book therefore undertakes to fill a gap in the history of early modern geometry and philosophy of mathematics by investigating the



different treatments of motion and genetic definitions by seven major sixteenth century commentators on Euclid's Elements from Oronce Fine 1494 1555 to Christoph Clavius 1538 1612 including Jacques Peletier 1517 1582 John Dee 1527 1608 1609 and Henry Billingsley d 1606 among others By investigating the ontological and epistemological conceptions underlying the introduction and uses of kinematic notions in their interpretation of Euclidean geometry this study displays the richness of the conceptual framework philosophical and mathematical inherent to the sixteenth century Euclidean tradition and shows how it contributed to a more generalised acceptance and promotion of kinematic approaches to geometry in the early modern period

*Cosmology and Politics in Plato's Later Works* Dominic J. O'Meara, 2017-10-05 Knowledge of the structure of the cosmos Plato suggests is important in organizing a human community which aims at happiness This book investigates this theme in Plato's later works the Timaeus Statesman and Laws Dominic J O Meara proposes fresh readings of these texts starting from the religious festivals and technical and artistic skills in the context of which Plato elaborates his cosmological and political theories for example the Greek architect's use of models as applied by Plato in describing the making of the world O Meara gives an account of the model of which Plato's world is an image of the mathematics used in producing the world and of the relation between the cosmic model and the political science and legislation involved in designing a model state in the Laws Non specialist scholars and students will be able to access and profit from the book **Nicholas of Cusa -**

**A Companion to his Life and his Times** Morimichi Watanabe, Edited by Gerald Christianson, 2016-05-06 This work is a guide to the life thought and activities of Nicholas of Cusa 1401 1464 the great fifteenth century philosopher theologian jurist author of mystical and ecclesiastical treatises cardinal and reformer It is intended not only for advanced scholars but also for beginners and those simply curious about a man who has been called one of the greatest Germans of the fifteenth century and a medieval thinker for the modern age The book provides a series of detailed but readable essays on ideas persons and places a work developed over the course of nearly three decades First it contains articles on the important events and concepts that affected Cusanus philosophical religious intellectual and political Then it turns to his precursors and contemporaries both friendly and critical These include philosophers theologians politicians and canon lawyers And third the book follows the footsteps of the man from Kues and examines various sites where he lived studied or visited Because the author has also visited many of these sites he can contribute personal observations to enliven the journey To add to the book's usefulness as a resource and reference tool each entry is followed by a bibliography containing both recent and older works The purpose of the volume is to gain a greater appreciation of Cusanus and his legacy by striving for a total view of his thought and experience instead of narrowly focusing on specific philosophical theological or intellectual ideas or certain periods of his activities in isolation from other facets of this compelling figure **The Geometry of Coincidence** Federica

De Felice, 2025-08-03 This book offers a contribution to our understanding of Nicholas of Cusa's theory of geometry It is based not only on his generally more famous philosophical texts e.g. De docta ignorantia Idiota etc but also and more

significantly on the strictly speaking mathematical texts drafted between 1445 and 1459 where Cusanus attempts to provide a solution to the vexata quaestio of the squaring of the circle First critically edited in 2010 and translated into Italian by the author in 2020 Cusanus Scripta mathematica are here scrutinized as to their context genesis and content in order to shed light on the one hand on the philosophical and theological motives behind Cusanus mathematical endeavours and on the other hand on the scope and limits of Cusanus geometrical constructive attempts to reach mathematical perfection In addition to providing a scrupulous survey of Cusanus sources on mathematics this book focuses on a little explored aspect in Cusanus work namely his original theory of geometrical space as men s space where the activity of mensurare takes place establishing relations of continuous proportionality to the original unity In conclusion the author provides an extensive account on the reception of Cusanus mathematical texts from their early dissemination to the reactions of several thinkers throughout history ensuring a full and rounded overview of Cusanus work in geometry mathematics and philosophy

**Ermolao Barbaro's On Celibacy 3 and 4 and On the Duty of the Ambassador** Gareth Williams, 2023-09-07 This book offers the first annotated translation into English of two works of the eminent Venetian humanist Ermolao Barbaro 1454-93 Books 3 and 4 of On Celibacy seek to justify a contemplative existence at a far remove from the active life and career path expected of a figure of Barbaro s standing within the Venetian patriciate Books 1 and 2 of On Celibacy are presented in the companion piece to this second volume The second work presented here is Barbaro s short treatise On the Duty of Ambassador 1488 based on Barbaro s own practical experience as a Venetian envoy abroad this treatise outlines the conduct expected of the dedicated career diplomat Viewed against each other Barbaro s On Celibacy and On the Duty of the Ambassador offer contrasting perspectives on the wider 15th century debate about the claims of the reflective as opposed to the active life a debate that extends all the way back to Greco Roman antiquity In On Celibacy the young Barbaro is committed to a life that proudly renounces civic engagement in the name of self discovery and inner fulfilment Yet a different Barbaro asserts himself in On the Duty of the Ambassador he now presents himself as a committed public servant in a work that is ahead of its time in theorizing the nature of modern Renaissance diplomacy On a personal level these two works capture the profound dichotomy in Barbaro s life between his humanist devotion to scholarship on the one hand and on the other his call of duty to the Republic of Venice

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