

Amir Alexander

Infinitesimal

HOW A DANGEROUS
MATHEMATICAL
THEORY
SHAPED *the* MODERN
WORLD

"A triumph." —Davide Castelvecchi, *Nature*

Infinitesimal How A Dangerous Mathematical Theory Shaped The Modern World

G Thomas



Infinitesimal How A Dangerous Mathematical Theory Shaped The Modern World:

Infinitesimal Amir Alexander, 2014-04-08 Pulsing with drama and excitement *Infinitesimal* celebrates the spirit of discovery innovation and intellectual achievement and it will forever change the way you look at a simple line On August 10 1632 five men in flowing black robes convened in a somber Roman palazzo to pass judgment on a deceptively simple proposition that a continuous line is composed of distinct and infinitely tiny parts With the stroke of a pen the Jesuit fathers banned the doctrine of infinitesimals announcing that it could never be taught or even mentioned The concept was deemed dangerous and subversive a threat to the belief that the world was an orderly place governed by a strict and unchanging set of rules If infinitesimals were ever accepted the Jesuits feared the entire world would be plunged into chaos In *Infinitesimal* the award winning historian Amir Alexander exposes the deep seated reasons behind the rulings of the Jesuits and shows how the doctrine persisted becoming the foundation of calculus and much of modern mathematics and technology Indeed not everyone agreed with the Jesuits Philosophers scientists and mathematicians across Europe embraced infinitesimals as the key to scientific progress freedom of thought and a more tolerant society As Alexander reveals it wasn't long before the two camps set off on a war that pitted Europe's forces of hierarchy and order against those of pluralism and change The story takes us from the bloody battlefields of Europe's religious wars and the English Civil War and into the lives of the greatest mathematicians and philosophers of the day including Galileo and Isaac Newton Cardinal Bellarmine and Thomas Hobbes and Christopher Clavius and John Wallis In Italy the defeat of the infinitely small signaled an end to that land's reign as the cultural heart of Europe and in England the triumph of infinitesimals helped launch the island nation on a course that would make it the world's first modern state From the imperial cities of Germany to the green hills of Surrey from the papal palace in Rome to the halls of the Royal Society of London Alexander demonstrates how a disagreement over a mathematical concept became a contest over the heavens and the earth The legitimacy of popes and kings as well as our beliefs in human liberty and progressive science were at stake the soul of the modern world hinged on the infinitesimal

Infinitesimal Amir Alexander, 2015-04 Explores the epic battle over a mathematical concept that shook the old order and shaped the world as we know it On August 10 1632 five leaders of the Society of Jesus convened in a somber Roman palazzo to pass judgment on a simple idea that a continuous line is composed of distinct and limitlessly tiny parts The doctrine would become the foundation of calculus but on that fateful day the judges ruled that it was forbidden With the stroke of a pen they set off a war for the soul of the modern world

Infinitesimal: How a Dangerous Mathematical Theory Shaped the Modern World Amir Alexander, 2014-04-08 Explores the epic battle over a mathematical concept that shook the old order and shaped the world as we know it On August 10 1632 five leaders of the Society of Jesus convened in a somber Roman palazzo to pass judgment on a simple idea that a continuous line is composed of distinct and limitlessly tiny parts The doctrine would become the foundation of calculus but on that fateful day the judges ruled that it was forbidden With the stroke of a pen they set off a

war for the soul of the modern world

Fractional Calculus for Skeptics I Bruce J. West, YangQuan Chen, 2024-05-16

This book is the first of its kind on fractional calculus FC dedicated to advocating for FC in STEM education and research Fractional calculus is increasingly used today but there remains a core population of skeptics regarding the utility of this new calculus This book is intended for those who are skeptical about the need for fractional calculus to describe dynamic complex networks and must be convinced of its use on a case by case basis It is a one stop resource to rapidly read and replace the appropriate skepticism with new knowledge It offers compelling reasons from the perspectives of the physical social and life sciences as to why fractional calculus is needed when addressing the complexity of an underlying STEM phenomenon The six chapters are accompanied by useful and essential appendices and chapter end references Each includes new fractional order ways of thinking about statistics complexity dynamics and what constitutes a solution to a complexity science problem The book will appeal to students and researchers in all STEM related fields such as engineering physics biology and biomedicine climate change big data and machine learning It is also suitable for general readers interested in these fields

Distributed Computing and Internet Technology Dang Van Hung, Meenakshi D'Souza, 2020-01-01 This book constitutes the proceedings of the 16th International Conference on Distributed Computing and Internet Technology ICDCIT 2020 held in Bhubaneswar India in January 2020 The 20 full and 3 short papers presented in this volume were carefully reviewed and selected from 110 submissions In addition the book included 6 invited papers The contributions were organized in topical sections named invited talks concurrent and distributed systems modelling and verification cloud and grid computing social networks machine learning and mobile networks data processing and blockchain technology and short papers

Promoting Language and STEAM as Human Rights in Education Zehlia Babaci-Wilhite, 2018-12-13 This book argues that integrating artistic contributions with an emphasis on culture and language can make Science Technology Engineering and Mathematics STEM subjects more accessible and therefore promote creativity and innovation in teaching and learning at all levels of education It provides tools and strategies for managing interdisciplinary learning and teaching based on successful collaborations between researchers practitioners and artists in the fields of the Arts and STEM subjects Based on contributions by educators scientists scholars linguists and artists from around the globe the book highlights how we can demonstrate teamwork and collaboration for innovation and creativity in STEAM subjects in the classroom and beyond The book reflects the core of human rights education using local languages and local knowledge through art as a tool for teaching human rights at school and bringing to light questions on diversity ecology climate change environmental issues health and the future of human beings as well as power relations between non dominant minorities and dominant the majority groups in society

Proof! Amir Alexander, 2019-09-10 A lucid and convincingly argued narrative of how ancient geometric principles continue to shape the contemporary world Publishers Weekly On a cloudy day in 1413 a balding young man stood at the entrance to the Cathedral of Florence facing the ancient Baptistery across the piazza As puzzled passers by looked on he

raised a small painting to his face then held a mirror in front of the painting Few at the time understood what he was up to even he barely had an inkling of what was at stake But on that day the master craftsman and engineer Filippo Brunelleschi would prove that the world and everything within it was governed by the ancient science of geometry In Proof the award winning historian Amir Alexander traces the path of the geometrical vision of the world as it coursed its way from the Renaissance to the present shaping our societies our politics and our ideals Geometry came to stand for a fixed and unchallengeable universal order and kings empire builders and even republican revolutionaries would rush to cast their rule as the apex of the geometrical universe For who could doubt the right of a ruler or the legitimacy of a government that drew its power from the immutable principles of Euclidean geometry From the elegant terraces of Versailles to the broad avenues of Washington DC and on to the boulevards of New Delhi and Manila the geometrical vision was carved into the landscape of modernity Euclid Alexander shows made the world as we know it possible *Between Tradition and Innovation* Ad J.

Meskens,2021-03-29 In *Between Tradition and Innovation* Ad Meskens traces the profound influence of a group of Flemish Jesuits on the course of mathematics in the seventeenth century Using manuscript evidence this book argues that one of the Flemish mathematics school s professors Gregorio a San Vicente 1584 1667 had developed a logically sound integration method more than a decade before the Italian mathematician Bonaventura Cavalieri Although San Vincente s superiors refused to grant him permission to publish his results his methods went on to influence numerous other mathematicians through his students many of whom became famous mathematicians in their own right By carefully tracing their careers and outlining their biographies Meskens convincingly shows that they made a number of ground breaking contributions to fields ranging from mathematics and mechanics to optics and architecture *Homage to Evangelista Torricelli's Opera*

Geometrica 1644-2024 Raffaele Pisano,Jean Dhombres,Patricia Radelet de Grave,Paolo Bussotti,2024-03-22 Evangelista Torricelli exemplifies the use the moderns made of the ancients mathematical methods Celebrating Evangelista Torricelli s monumental *Opera geometrica* this book marks 380 years since its publication 1644 2024 This homage to Torricelli introduces the magnificent major work in Mechanics and Mathematics of a brilliant Archimedean and Galilean scientist to modern readers *Opera geometrica* deals with Motion Mechanics and Geometry Infinitesimals In quibus Archimedis doctrina Torricelli also presents his mechanical principle of equilibrium the foundation of the modern Principle of Virtual Work Static This outstanding source and research book spotlights the relevance and originality of Torricelli s Mechanics and is the first and most profound analysis of the *Opera geometrica* to date The historical study is achieved in extensive Introduction 5 Essays and an accurate Transcription of *Opera geometrica* with parallel side by side text including substantive explicative notes The book is an accessible avenue to understanding this work by leading authorities who offer much needed insights into the relationship Physics Mathematics Mechanics and Fundamentals It appeals to historians epistemologists and scientists **Preparing STEM Teachers** Joanne E. Goodell,Selma Koç,2020-09-01 STEM project based instruction is a

pedagogical approach that is gaining popularity across the USA However there are very few teacher education programs that focus specifically on preparing graduates to teach in project based environments This book is focused on the UTeach program a STEM teacher education model that is being implemented across the USA in 46 universities Originally focused only on mathematics and science many UTeach programs are now offering engineering and computer science licensure programs as well This book provides a forum to disseminate how different institutions have implemented the UTeach model in their local context Topics discussed will include sustainability features of the model and how program assessment innovative instructional programming classroom research and effectiveness research have contributed to its success The objectives of the book are To help educators gain insight into a teacher education organizational model focused on STEM and how and why it was developed To present the theoretical underpinnings of a STEM education model i e deep learning conceptual understanding To present innovative instructional programming in teacher education i e projectbased instruction functions and modeling research methods To present research and practice in classroom and field implementation and future research recommendations To disseminate program assessments and improvement efforts

Play Among Books Miro Roman,Alice_ch3n81,2021-12-06 How does coding change the way we think about architecture This question opens up an important research perspective In this book Miro Roman and his AI Alice_ch3n81 develop a playful scenario in which they propose coding as the new literacy of information They convey knowledge in the form of a project model that links the fields of architecture and information through two interwoven narrative strands in an infinite flow of real books Focusing on the intersection of information technology and architectural formulation the authors create an evolving intellectual reflection on digital architecture and computer science

The Handbook of Historical Economics Alberto Bisin,Giovanni Federico,2021-04-21 The Handbook of Historical Economics guides students and researchers through a quantitative economic history that uses fully up to date econometric methods The book s coverage of statistics applied to the social sciences makes it invaluable to a broad readership As new sources and applications of data in every economic field are enabling economists to ask and answer new fundamental questions this book presents an up to date reference on the topics at hand Provides an historical outline of the two cliometric revolutions highlighting the similarities and the differences between the two Surveys the issues and principal results of the second cliometric revolution Explores innovations in formulating hypotheses and statistical testing relating them to wider trends in data driven empirical economics

Practical Spirituality and Human Development Ananta Kumar Giri,2018-09-28 This book explores varieties of spiritual movements and alternative experiments for generation of beauty dignity and dialogues in a world where the rise of the religious in politics and the public sphere is often accompanied by violence It examines how spirituality can contribute to human development social transformations and planetary realizations urging us to treat each other and our planet with evolutionary care and respect Trans disciplinary and trans paradigmatic to its very core this text opens new pathways of practical

spirituality and humanistic action for both scholarship and discourse and offers an invaluable companion for scholars across religious studies cultural studies and development studies **When Matter Became Mind** Dana Xavier Kerola,2025-08-25

This book is a scientific story that chronicles the origin and evolution of the mutually connected physical and mental aspects of our universe This work examines in an engaging way two of the greatest mysteries in all of science and philosophy the origin of the universe itself and the nature of human consciousness The author invites the reader to travel with him mentally to ponder the deep question Why is there something rather than nothing The author infuses memories of events in his own life to showcase the marvelous magic of human memory The book also reveals the sheer power of rational thought embodied in great achievements by the likes of Georg Cantor with his proof of distinct levels of mathematical infinity and Kurt G del in the formulation of his Incompleteness Theorems that lie at the root of our ability to gain absolute knowledge about the universe This educationally entertaining work will appeal to a broad spectrum of readers from scientist authors and educators to anyone who is seeking to discover a new cosmic perspective they each might adopt for themselves

Wittgenstein, Religion and Ethics Mikel Burley,2018-08-23 Ludwig Wittgenstein was an outstanding 20th century philosopher whose influence has reverberated throughout not only philosophy but also numerous other areas of inquiry including theology and the study of religions Exemplifying how Wittgenstein s thought can be engaged with both sympathetically and critically Wittgenstein Religion and Ethics pushes forward our thinking about religion and ethics and their place in the modern world Bringing Wittgenstein s ideas into productive dialogue with several other important thinkers including Elizabeth Anscombe St Thomas Aquinas Georg Cantor S ren Kierkegaard and George Orwell this collection fosters a highly informative picture of how different strands of contemporary and historical thought intersect and bear upon one another Chapters are written by leading scholars in the field and tackle current debates concerning religious and ethical matters with particular attention to the nature of religious language This is a substantial contribution to religion and ethics demonstrating the significance of Wittgenstein s ideas for these and related subjects Change Is the Only Constant Ben

Orlin,2019-10-08 From popular math blogger and author of the underground bestseller Math With Bad Drawings Change Is The Only Constant is an engaging and eloquent exploration of the intersection between calculus and daily life complete with Orlin s sly humor and wonderfully bad drawings Change is the Only Constant is an engaging and eloquent exploration of the intersection between calculus and daily life complete with Orlin s sly humor and memorably bad drawings By spinning 28 engaging mathematical tales Orlin shows us that calculus is simply another language to express the very things we humans grapple with every day love risk time and most importantly change Divided into two parts Moments and Eternities and drawing on everyone from Sherlock Holmes to Mark Twain to David Foster Wallace Change is the Only Constant unearths connections between calculus art literature and a beloved dog named Elvis This is not just math for math s sake it s math for the sake of becoming a wiser and more thoughtful human Infinite Powers Steven Strogatz,2019 This is the captivating

story of mathematics greatest ever idea calculus Without it there would be no computers no microwave ovens no GPS and no space travel But before it gave modern man almost infinite powers calculus was behind centuries of controversy competition and even death Taking us on a thrilling journey through three millennia professor Steven Strogatz charts the development of this seminal achievement from the days of Aristotle to today's million dollar reward that awaits whoever cracks Riemann's hypothesis Filled with idiosyncratic characters from Pythagoras to Euler Infinite Powers is a compelling human drama that reveals the legacy of calculus on nearly every aspect of modern civilization including science politics ethics philosophy and much besides

A Culture of Growth Joel Mokyr, 2016-10-25 Why Enlightenment culture sparked the Industrial Revolution During the late eighteenth century innovations in Europe triggered the Industrial Revolution and the sustained economic progress that spread across the globe While much has been made of the details of the Industrial Revolution what remains a mystery is why it took place at all Why did this revolution begin in the West and not elsewhere and why did it continue leading to today's unprecedented prosperity In this groundbreaking book celebrated economic historian Joel Mokyr argues that a culture of growth specific to early modern Europe and the European Enlightenment laid the foundations for the scientific advances and pioneering inventions that would instigate explosive technological and economic development Bringing together economics the history of science and technology and models of cultural evolution Mokyr demonstrates that culture the beliefs values and preferences in society that are capable of changing behavior was a deciding factor in societal transformations Mokyr looks at the period 1500-1700 to show that a politically fragmented Europe fostered a competitive market for ideas and a willingness to investigate the secrets of nature At the same time a transnational community of brilliant thinkers known as the Republic of Letters freely circulated and distributed ideas and writings This political fragmentation and the supportive intellectual environment explain how the Industrial Revolution happened in Europe but not China despite similar levels of technology and intellectual activity In Europe heterodox and creative thinkers could find sanctuary in other countries and spread their thinking across borders In contrast China's version of the Enlightenment remained controlled by the ruling elite Combining ideas from economics and cultural evolution A Culture of Growth provides startling reasons for why the foundations of our modern economy were laid in the mere two centuries between Columbus and Newton

Before Voltaire J.B. Shank, 2018-06-08 We have grown accustomed to the idea that scientific theories are embedded in their place and time But in the case of the development of mathematical physics in eighteenth century France the relationship was extremely close In Before Voltaire J.B. Shank shows that although the publication of Isaac Newton's *Principia* in 1687 exerted strong influence the development of calculus based physics is better understood as an outcome that grew from French culture in general Before Voltaire explores how Newton's ideas made their way not just through the realm of French science but into the larger world of society and culture of which *Principia* was an intertwined part Shank also details a history of the beginnings of calculus based mathematical physics that integrates it into the larger intellectual currents in France at the

time including the Battle of the Ancients and the Moderns the emergence of wider audiences for science and the role of the newly reorganized Royal Academy of Sciences The resulting book offers an unprecedented cultural history of one the most important and influential elements of Enlightenment science *Information—Consciousness—Reality* James B. Glattfelder, 2019-04-10 This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age old enigmas of existence Over 300 years ago the human mind discovered the machine code of reality mathematics By utilizing abstract thought systems humans began to decode the workings of the cosmos From this understanding the current scientific paradigm emerged ultimately discovering the gift of technology Today however our island of knowledge is surrounded by ever longer shores of ignorance Science appears to have hit a dead end when confronted with the nature of reality and consciousness In this fascinating and accessible volume James Glattfelder explores a radical paradigm shift uncovering the ontology of reality It is found to be information theoretic and participatory yielding a computational and programmable universe

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