Alexander Jones
Christine Proust
John M. Steele   *Editors*

A Mathematician's Journeys

Otto Neugebauer and Modern Transformations of Ancient Science

Springer

Mathematicians Journeys Neugebauer Transformations Archimedes

David E. Rowe,Mechthild Koreuber

Mathematicians Journeys Neugebauer Transformations Archimedes:

A Mathematician's Journeys Alexander Jones,Christine Proust,John M. Steele,2016-02-03 This book explores facets of Otto Neugebauer s career his impact on the history and practice of mathematics and the ways in which his legacy has been preserved or transformed in recent decades looking ahead to the directions in which the study of the history of science will head in the twenty first century Neugebauer more than any other scholar of recent times shaped the way we perceive premodern science Through his scholarship and influence on students and collaborators he inculcated both an approach to historical research on ancient and medieval mathematics and astronomy through precise mathematical and philological study of texts and a vision of these sciences as systems of knowledge and method that spread outward from the ancient Near Eastern civilizations crossing cultural boundaries and circulating over a tremendous geographical expanse of the Old World from the Atlantic to India **A Mathematician's Journeys** Christine Proust,John M. Steele,2016 This book explores facets of Otto Neugebauer s career his impact on the history and practice of mathematics and the ways in which his legacy has been preserved or transformed in recent decades looking ahead to the directions in which the study of the history of science will head in the twenty first century Neugebauer more than any other scholar of recent times shaped the way we perceive premodern science Through his scholarship and influence on students and collaborators he inculcated both an approach to historical research on ancient and medieval mathematics and astronomy through precise mathematical and philological study of texts and a vision of these sciences as systems of knowledge and method that spread outward from the ancient Near Eastern civilizations crossing cultural boundaries and circulating over a tremendous geographical expanse of the Old World from the Atlantic to India Translating Writings of Early Scholars in the Ancient Near East, Egypt, Greece and Rome Annette Imhausen,Tanja Pommerening,2016-11-21 Ancient cultures have left written evidence of a variety of scientific texts But how can should they be translated Is it possible to use modern concepts and terminology in their translation and which consequences result from this practice Scholars of various disciplines discuss the practice of translating ancient scientific texts and present examples of these texts and their translations **Scientific Traditions in the Ancient Mediterranean and Near East** Sofie Schiødt,Amber Jacob,Kim Ryholt,2023-08-29 Comparative insights on astronomy divination and medicine from ancient texts Scientific Traditions in the Ancient Mediterranean and Near East presents a collection of articles by leading scholars on scientific practices in the ancient world with emphasis on the fields of medicine astronomy astrology and other forms of divination The essays engage with a wide variety of textual sources in many different languages and scripts from Egypt and the Near East spanning more than a millennium including some texts that are edited and discussed here for the first time The contributors to this volume were tasked with approaching their texts not only as specialists but also from a cross cultural perspective and the resulting body of work reveals new and exciting evidence for the transfer of scientific knowledge across cultural borders in the ancient Mediterranean and Near East This book will be of interest

primarily to specialists in the history of medicine science divination and magic as well as to papyrologists Egyptologists and Assyriologists   *Between Greece and Babylonia* Kathryn Stevens,2019-05-23 Focusing on Greece and Babylonia this book provides a new cross cultural approach to the intellectual history of the Hellenistic world   <u>Proving It Her Way</u> David E. Rowe,Mechthild Koreuber,2020-11-23 The name Emmy Noether is one of the most celebrated in the history of mathematics A brilliant algebraist and iconic figure for women in modern science Noether exerted a strong influence on the younger mathematicians of her time and long thereafter today she is known worldwide as the mother of modern algebra Drawing on original archival material and recent research this book follows Emmy Noether s career from her early years in Erlangen up until her tragic death in the United States After solving a major outstanding problem in Einstein s theory of relativity she was finally able to join the G ttingen faculty in 1919 Proving It Her Way offers a new perspective on an extraordinary career first by focusing on important figures in Noether s life and second by showing how she selflessly promoted the careers of several other talented individuals By exploring her mathematical world it aims to convey the personality and impact of a remarkable mathematician who literally changed the face of modern mathematics despite the fact that as a woman she never held a regular professorship Written for a general audience this study uncovers the human dimensions of Noether s key relationships with a younger generation of mathematicians Thematically the authors took inspiration from their cooperation with the ensemble portraittheater Vienna in producing the play Diving into Math with Emmy Noether Four of the young mathematicians portrayed in Proving It Her Way B L van der Waerden Pavel Alexandrov Helmut Hasse and Olga Taussky also appear in Diving into Math   **Mathematics Going Forward** Jean-Michel Morel,Bernard Teissier,2023-05-13 This volume is an original collection of articles by 44 leading mathematicians on the theme of the future of the discipline The contributions range from musings on the future of specific fields to analyses of the history of the discipline to discussions of open problems and conjectures including first solutions of unresolved problems Interestingly the topics do not cover all of mathematics but only those deemed most worthy to reflect on for future generations These topics encompass the most active parts of pure and applied mathematics including algebraic geometry probability logic optimization finance topology partial differential equations category theory number theory differential geometry dynamical systems artificial intelligence theory of groups mathematical physics and statistics   <u>From Riemann to Differential Geometry and Relativity</u> Lizhen Ji,Athanase Papadopoulos,Sumio Yamada,2017-10-03 This book explores the work of Bernhard Riemann and its impact on mathematics philosophy and physics It features contributions from a range of fields historical expositions and selected research articles that were motivated by Riemann s ideas and demonstrate their timelessness The editors are convinced of the tremendous value of going into Riemann s work in depth investigating his original ideas integrating them into a broader perspective and establishing ties with modern science and philosophy Accordingly the contributors to this volume are mathematicians physicists philosophers and historians of science The book offers a unique resource for students and researchers in the fields

of mathematics physics and philosophy historians of science and more generally to a wide range of readers interested in the history of ideas   <u>Wissenschaft und Wissenschaftler im Alten Ägypten</u> Peter Dils,Hans-Werner Fischer-Elfert,Ingelore Hafemann,Sebastian Richter,2021-07-05 Wissensgeschichte der Antike und historische Epistemologie sind zu Brennpunkten interdisziplin rer Forschung geworden Die Beitr ge dieses Bandes thematisieren die Wissenschaft des Alten gypten in ihren Agenten den Wissenschaftlern avant la lettre Neben der Mathematik kommen Medizin Magie Alchemie Stern und Pflanzenkunde Verfahrenstechnik und Chemie zur Sprache Ein Protagonist der Erforschung der alt gyptischen Wissenschaft war der 2016 verstorbene gyptologe Walter Friedrich Reineke dem dieser Band gewidmet ist   **Aber die Zeit fürchtet die Pyramiden** Thomas L. Gertzen,2022-01-19 Die zeitliche Dimension von Kulturgeschichte wurde lange Zeit durch die Schilderungen der Bibel erg nzt um die Darstellung klassischer Autoren bestimmt Mit dem fr hneuzeitlichen Aufkommen der Naturwissenschaften bildete sich allm hlich ein alternatives Paradigma heraus das religi se Gewissheiten in Frage stellte und geistige und geistliche Autorit ten herausforderte Im Rahmen dieser weltanschaulichen Auseinandersetzung erhofften sich beide Seiten Unterst tzung durch die Erkenntnisse der sich zum Ende des 18 Jahrhunderts ausbildenden Altertumswissenschaften Ihre Vertreter waren sowohl durch die Verfahren des kritischen Quellenstudiums gepr gt wie auch durch die Anwendung naturwissenschaftlicher Untersuchungsmethoden Dabei verlief die Entwicklung von einer biblischen Chronologie hin zu naturwissenschaftlich und durch historische Belege gesicherten Geschichtsschreibung keineswegs linear und einseitig Gerade aufgrund der doppelten Pr gung fr her Altertumswissenschaftler durch religi se Weltbilder und die Schulung in natur wissenschaftlichem Denken entstanden immer neue Vorstellungen und Konzepte ber das Alter menschlicher Kultur Der Band setzt sich in mehreren wissenschaftshistorischen Fallstudien mit diesen Entwicklungen auseinander   *Forthcoming Books* Rose Arny,2003   *Journey through Genius* William Dunham,1991-01-16 Praise for William Dunham s Journey Through Genius The GreatTheorems of Mathematics Dunham deftly guides the reader throughthe verbal and logical intricacies of major mathematical questionsand proofs conveying a splendid sense of how the greatestmathematicians from ancient to modern times presented theirarguments Ivars Peterson Author The Mathematical TouristMathematics and Physics Editor Science News It is mathematics presented as a series of works of art afascinating lingering over individual examples of ingenuity andinsight It is mathematics by lightning flash Isaac Asimov It is a captivating collection of essays of major mathematicalachievements brought to life by the personal and historicalanecdotes which the author has skillfully woven into the text Thisis a book which should find its place on the bookshelf of anyoneinterested in science and the scientists who create it R L Graham AT T Bell Laboratories Come on a time machine tour through 2 300 years in which Dunhamdrops in on some of the greatest mathematicians in history Almostas if we chat over tea and crumpets we get to know them and theirideas ideas that ring with eternity and that offer glimpses intothe often veiled beauty of mathematics and logic And all the whilewe marvel hoping that the tour will not stop Jearl Walker Physics Department

Cleveland State University Author of The FlyingCircus of Physics **The Works of Archimedes** Archimedes,Sir Thomas Little Heath,2002-01-01 Complete works of ancient geometer in highly accessible translation by distinguished scholar Topics include the famous problems of the ratio of the areas of a cylinder and an inscribed sphere the measurement of a circle the properties of conoids spheroids and spirals and the quadrature of the parabola Informative introduction and 52 page supplement **The Works of Archimedes** Archimedes,1897 Archimedes in the 21st Century Chris Rorres,2017-08-26 This book is a collection of papers presented at the Archimedes in the 21st Century world conference held at the Courant Institute of Mathematical Sciences in 2013 This conference focused on the enduring and continuing influence of Archimedes in our modern world celebrating his centuries of influence on mathematics science and engineering Archimedes planted the seeds for a myriad of seminal ideas that would grow over the ages Each chapter surveys the growth of one or more of these seeds and the fruit that they continue to bear to this day The conference speakers contributing to this book are actively involved in STEM fields whose origins trace back to Archimedes many of whom have conducted and published research that extends Archimedes work into the 21st century The speakers are not historians so while historical context is provided this book is uniquely focused on the works themselves as opposed to their history The breadth and depth of Archimedes influence will inspire delight and even surprise readers from a variety of fields and interests including historians mathematicians scientists and engineers Only a modest background in math is required to read this book making it accessible to curious readers of all ages **Archimedes** Mary Gow,2014-12-15 An original and profound thinker Archimedes was a mathematician a physicist a mechanical engineer and an inventor He is most famous for proving the law of the lever and inventing the compound pulley This title in the GENIUS SCIENTISTS AND THEIR GENIUS IDEAS series offers a look at one of the greatest minds of the ancient world Archimedes Heather Hasan,2005-12-15 Describes the life and ideas of the Greek philosopher whose principles greatly influenced mathematics and physics **Archimedes** Viola Jones,Heather Hasan,2015-07-15 Known as the Father of Mathematics Archimedes was the most important mathematician and inventor in ancient Greece Many of the inventions he created as solutions to problems presented to him by King Hiero II are still in use today Accomplished in both theoretical and practical mathematics Archimedes is best known for mechanical inventions like Archimedes screw the Claw of Archimedes and the heat ray as a weapon as well as his discoveries using water displacement and buoyancy But his contributions to pure mathematics such as his approximation of pi laid the groundwork for modern calculus **The Works of Archimedes** Archimedes Archimedes,2022-10-27 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support

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