

Paulus Gerdes & Ahmed Djebbar

**MATHEMATICS
IN
AFRICAN
HISTORY
AND CULTURES**

AN ANNOTATED BIBLIOGRAPHY

Mathematics In African History And Cultures An Annotated Bibliography

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Mathematics In African History And Cultures An Annotated Bibliography:

Mathematics in African History and Cultures Paulus Gerdes,Ahmed Djebbar,2004 **Mathematics in African History and Cultures** Paulus Gerdes,2007 This volume constitutes an updated version of the bibliography published in 2004 by the African Mathematical Union The African Studies Association attributed the original edition a special mention in the 2006 Conover Porter Award competition The book contains over 1600 bibliographic entries The appendices contain additional bibliographic information on 1 mathematicians of the Diaspora 2 publications by Africans on the history of mathematics outside Africa 3 time reckoning and astronomy in African history and cultures 4 string figures in Africa 5 examples of books published by African mathematicians 6 board games in Africa 7 research inspired by geometric aspects of the sona tradition The book concludes with several indices subject country region author ethnographic and linguistic journal mathematicians Professor Jan Persens of the University of the Western Cape South Africa and president of the African Mathematical Union 2000 2004 wrote the preface History of Mathematics in Africa: 2000-2011 Paulus Gerdes,Ahmed Djebbar,2011 **History of Mathematics in Africa: 1986-1999** Paulus Gerdes,Ahmed Djebbar,2011 **The Postcolonial Turn** Francis B. Nyamnjoh,2011 This innovative book is a forward looking reflection on mental decolonisation and the postcolonial turn in Africanist scholarship As a whole it provides five decennia long lucid and empathetic research involvements by seasoned scholars who came to live in local people s own ways significant daily events experienced by communities professional networks and local experts in various African contexts The book covers materials drawn from Botswana Cameroon the Democratic Republic of Congo Mozambique Nigeria South Africa and Tanzania Themes include the Whelan Research Academy rap musicians political leaders wise men and women healers Sacred Spirit churches diviners bards and weavers who are deemed proficient in the classical African geometrical knowledge As a tribute to late Archie Mafeje who showed real commitment to decolonise social sciences from western centred modernist development theories commentators of his work pinpoint how these theories sought to dismiss the active role played by African people in their quest for self emancipation One of the central questions addressed by the book concerns the role of an anthropologist and this issue is debated against the background of the academic lecture delivered by Ren Devisch when receiving an honorary doctoral degree at the University of Kinshasa The lecture triggered critical but constructive comments from such seasoned experts as Valentin Mudimbe and Wim van Binsbergen They excoriate anthropological knowledge on account that the anthropologist notwithstanding his or her social and cognitive empathy and intense communication with the host community too often fails to also question her own world and intellectual habitus from the standpoint of her hosts Leading anthropologists carry further into great depth the bifocal anthropological endeavour focussing on local people s re imagining and re connecting the local and global The book is of interest to a wide readership in the humanities social sciences philosophy and the history of the African continent and its relation with the North African Indigenous Knowledge and the

Disciplines Gloria Emeagwali, George J Sefa Dei, 2014-11-26 This text explores the multidisciplinary context of African Indigenous Knowledge Systems from scholars and scholar activists committed to the interrogation production articulation dissemination and general development of endogenous and indigenous modes of intellectual activity and praxis The work reinforces the demand for the decolonization of the academy and makes the case for a paradigmatic shift in content subject matter and curriculum in institutions in Africa and elsewhere with a view to challenging and rejecting disinformation and intellectual servitude Indigenous intellectual discourses related to diverse disciplines take center stage in this volume with a focus on education mathematics medicine chemistry and engineering in their historical and contemporary context

African Doctorates in Mathematics, 2007 This volume presents a catalogue of over 2000 doctoral theses by Africans in all fields of mathematics including applied mathematics mathematics education and history of mathematics The introduction contains information about distribution by country institutions period and by gender about mathematical density and mobility of mathematicians Several appendices are included female doctorate holders doctorates in mathematics education doctorates awarded by African universities to non Africans doctoral theses by non Africans about mathematics in Africa activities of African mathematicians at the service of their communities Paulus Gerdes compiled the information in his capacity of Chairman of the African Mathematical Union Commission for the History of Mathematics in Africa AMUCHMA The book contains a preface by Mohamed Hassan President of the African Academy of Sciences AAS and Executive Director of the Academy of Sciences for the Developing World TWAS 383 pp African Mathematics Abdul Karim Bangura, 2012 This is the first comprehensive text on African Mathematics that can be used to address some of the problematic issues in this area These issues include attitudes curriculum development educational change academic achievement standardized and other tests performance factors student characteristics cross cultural differences and studies literacy native speakers social class and differences equal education teaching methods knowledge level educational guidelines and policies transitional schools comparative education other subjects such as physics and social studies surveys talent educational research teacher education and qualifications academic standards teacher effectiveness lesson plans and modules teacher characteristics instructional materials program effectiveness program evaluation African culture African history Black studies class activities educational games number systems cognitive ability foreign influence and fundamental concepts What unifies the chapters in this book can appear rather banal but many mathematical insights are so obvious and so fundamental that they are difficult to absorb appreciate and express with fresh clarity Some of the more basic insights are isolated by accounts of investigators who have earned their contemporaries respect Winner of the 2012 Cecil B Currey Book Award **What Mathematics from Africa?** Giandomenico Sica, 2005 *African Research & Documentation*, 2006 **The African Mother Tongue and Mathematical Ideas** Abdul Karim Bangura, 2020-06-02 This book by renowned scholar Dr Abdul Karim Bangura combines linguistics and mathematics to show how and why African centred mathematical ideas can be a driving force in Africa s

development efforts Bangura explores the concept that Africa has been the centre of the History of Mathematics for thousands of years as the civilizations that emerged across the continent developed contributions which would enrich both ancient and modern understanding of nature through mathematics However scholars and other professionals working in the field of mathematics education in Africa have identified a plethora of issues in carrying out their tasks This is highlighted by one of the most compelling arguments in the book which is that a major reason for these problems is the fact that the African mother tongues has been greatly neglected in the teaching of mathematics in the continent Bangura asserts that a change has to be made in order for Africa to benefit from the exceptional opportunities mathematics offer showing that even if there is a great body of work connecting linguistics and mathematics few analyses have been performed on the link between African languages and mathematics and the ones that have been made are not theoretically grounded on linguistics Thus the book begins by identifying the objects of study of linguistics and mathematics and delineates which ones they have in common Next since the object of study of linguistics is language the nine design features of language are employed to examine each of the objects as it pertains to African languages After that mathematical ideas of sustainability and those of tipping points are suggested as means to help Africa s development efforts

An Intellectual Biography of Africa

Francis Kwarteng, 2022-07-13 Africa is the birthplace of humanity and civilization And yet people generally don t want to accept the scientific impression of Africa as the birthplace of human civilization The skeptics include Africans themselves a direct result of the colonial educational systems still in place across Africa and even those Africans who acquire Western education particularly in the humanities have been trapped in the symptomatology of epistemic peonage These colonial educational systems have overstayed their welcome and should be dismantled This is where African agency comes in Agential autonomy deserves an authoritative voice in shaping the curricular direction of Africa Agential autonomy implicitly sanctions an Afrocentric approach to curriculum development pedagogy historiography literary theory indigenous language development and knowledge construction Science technology engineering mathematics information and communications technology STEM ICT and research and development R D both exercise foundational leverage in the scientific and cultural discourse of the kind of African Renaissance Cheikh Anta Diop envisaged Mr Francis Kwarteng has written a book that looks at some of the major distortions of African history and Africa s major contributions to human civilization In this context Mr Kwarteng joins a long list of thinkers who roundly reject the foundational Eurocentric epistemology of Africa in favor of an Afrocentric paradigm of Africa s material spiritual scientific and epistemic assertion Mr Kwarteng places S T E M and a revision of the humanities at the center of the African Renaissance and critiques Eurocentric fantasies about Africa and its Diaspora following the critical examples of Cheikh Anta Diop Ama Mazama Molefi Kete Asante Abdul Karim Bangura Theophile Obenga Maulana Karenga Mubabingo Bilolo Kwame Nkrumah Ivan Van Sertima W E B Du Bois and several others Readers of this book will be challenged to look at Africa through a critical lens Ama Mazama editor author of Africa in the

21st Century Toward a New Future There are countless books about the evolution of European intellectual thought but scarcely any that captures the pioneering contributions of Africans since the beginning of recorded knowledge in Kemet aka Ancient Egypt Well that long drought has ended with the publication of Kwame Ninsin's *An Intellectual Biography of Africa: A Philosophical Anatomy of Advancing Africa the Diopian Way* Prepare to be educated Milton Allimadi author of *Manufacturing Hate: How Africa Was Demonized in the Media* **Othava** Paulus Gerdes, 2010-01-01 In the book *Othava: Making Baskets and Doing Geometry in the Makhuwa Culture in the Northeast of Mozambique* I reflect on practices in the Makhuwa culture which provide evidence of the geometric considerations operating in basket weaving and are suitable and appropriate for mathematical and educational exploration A proper scientific understanding of this knowledge and the educational value of these manifestations may lead to a better appreciation of the Makhuwa culture The practices I present in this book belong to the cultural sphere of Othava weaving plaiting interweaving interlacing braiding that is to basket and mat weaving The topics which are analysed are the making of funnels hats fish traps containers trays dance rattles purses decorated braids baskets and handbags knots and circular mats 292 pp Colour versions of the photographs in the book are published in a separate supplement L'ancien et le Nouveau Paulin Hountondji, 2024-11-29 Comment s'articulent en Afrique dans le domaine du savoir et du savoir faire 1 ancien et le nouveau Que savions nous hier et que savons nous aujourd'hui Quelle était hier quelle est aujourd'hui la part du mythe dans ce que nous croyons savoir Et comment finir dans chaque cas le noyau dur des connaissances solides et universellement valables Quels droits et quels devoirs nous reconnaissons nous en tant qu'êtres humains en tant que femmes en tant qu'enfants en tant que peuples ou nations et quelle conscience avons nous aujourd'hui de ces droits et devoirs Quel est l'impact de ce qu'on appelle aujourd'hui la mondialisation sur l'évolution du savoir du savoir faire et de cette conscience des droits et devoirs Ces questions et d'autres qui y sont liées le présent ouvrage apporte quelques éléments de réponse C'est le résultat d'un colloque tenu à Cotonou en octobre 2006 sur le thème Savoirs traditionnels et science moderne Il est dédié à la mémoire de Georg Elwert africaniste allemand disparu en 2005 dont les travaux sur le Bénin l'Afrique et le Tiers Monde restent une source d'inspiration pour beaucoup How are the old and the new expressed in the field of knowledge and know how What did we know yesterday and what do we know today What was yesterday and what is today the mythical part in what we believe we know And how do we define in each case the core of concrete and universally valid knowledges What rights and duties do we acclaim as human beings as women as children as peoples or nations and what understanding do we today have of these rights and duties What is the impact of what we today call globalisation on the evolution of knowledge know how and the awareness of such rights and duties To these questions and to other related ones this book provides some answers It is the result of a conference held in Cotonou in October 2006 on the theme Traditional knowledges and modern science It is dedicated to the memory of Georg Elwert a German Africanist who passed away in 2005 and whose work on Benin Africa and the Third World remains a source of inspiration for many

Women, Culture and Geometry in Southern Africa Paulus Gerdes, 2013 New edition of award winning book Women and Geometry in Southern Africa Suggestions for Further Research published by the Universidade Pedagógica Mozambique in 1995 The original book contains chapters on geometrical ideas embedded in basket weaving bead work wall decoration tattooing and ceramics The expanded edition includes a foreword by Sibusiso Moyo Secretary of the African Mathematical Union Commission on Women in Mathematics in Africa and Research Director of the Durban University of Technology South Africa afterwords by Ubiratan D Ambrosio Brazil and Jens Hoyrup Denmark and the papers Makwe colour inversion symmetry and patterns Northeastern Mozambique and Symmetries on mats woven by Yombe women from the area along the Lower Congo The book contains also a chapter written by Salimo Saide on the geometry of pottery decoration among Yao women Nyassa Province Mozambique 2013 276 pp

The Shock of Recognition Lewis Pyenson, 2020-10-12 In *The Shock of Recognition* Lewis Pyenson uses a method called Historical Complementarity to identify the motif of non figurative abstraction in modern art and science He identifies the motif in Picasso's and Einstein's educational environments He shows how this motif in domestic furnishing and in urban lighting set the stage for Picasso's and Einstein's professional success before 1914 He applies his method to intellectual life in Argentina using it to address that nation's focus on an inventory of the natural world until the 1940s its adoption of non figurative art and nuclear physics in the middle of the twentieth century and attention to landscape painting and the wonder of nature at the end of the century

Decolonising Science, Technology, Engineering and Mathematics (STEM) in an Age of Technocolonialism Artwell Nhemachena, Nokuthula Hlabangane, 2020-02-14 Positing the notions of coloniality of ignorance and geopolitics of ignorance as central to coloniality and colonisation this book examines how colonialists socially produced ignorance among colonised indigenous peoples so as to render them docile and manageable Dismissing colonial descriptions of indigenous people as savages illiterate irrational prelogical mystical primitive barbaric and backward the book argues that imperialists colonialists contrived geopolitics of ignorance wherein indigenous regions were forced to become ignorant hence containable and manageable in the imperial world Questioning the provenance of modernist epistemologies the book asks why Eurocentric scholars only contest the provenance of indigenous knowledges artefacts and scientific collections Interrogating why empire sponsors the decolonisation of universities epistemologies in indigenous territories while resisting the repatriation restitution of indigenous artefacts the book also wonders why Westerners who still retain indigenous artefacts skulls and skeletons in their museums universities and private collections do not consider such artefacts and skulls to be colonising them as well The book is valuable to scholars and activists in the fields of anthropology museums and heritage studies science and technology studies decoloniality policymaking education politics sociology and development studies

Global Perspectives on Decolonizing Postgraduate Education Gumbo, Mishack Thiza, Gaotlhobogwe, Michael, Pedzisai, Constantino, Jojo, Zingiswa Mybert Monica, Knaus, Christopher B., 2024-05-13 A deep seated issue persists in postgraduate education one that threatens

the relevance of academia in our diverse and evolving world The problem at hand is the Western centric nature of postgraduate education where research paradigms methodologies and theoretical frameworks overwhelmingly reflect a Western worldview This rigid adherence to Western ideologies has left indigenous communities on the periphery of academic discourse denying them the opportunity to engage with their knowledge systems and practices Despite the richness and prevalence of indigenous knowledge the existing educational structure remains a barrier to their inclusion This disconnect is not only an academic concern but also a societal one as it hinders sustainable development and stifles the voices of indigenous scholars and students Global Perspectives on Decolonizing Postgraduate Education serves as a compelling solution to the problem at hand It offers a comprehensive roadmap to decolonize postgraduate education infusing it with indigenous approaches paradigms theories and methods Through critical examination and practical strategies this book empowers academics curriculum designers and postgraduate students to embark on a transformative journey

African Basketry Paulus Gerdes, 2007 From the Preface Over the years Paulus Gerdes has established himself as the pre eminent expert on patterns in African weaving and basketry and the broader implications of these patterns This new book is a broad gallery of plaited African designs These range over much of the continent while concentrating on those parts of Africa that are closest to his Mozambique center including Kongo Mbole and Mangbetu from Congo Cokwe and Lunda from Angola Digo from Kenya Soga from Uganda Zulu from South Africa and Makhuwa in Mozambique itself but including such distant peoples as Bamileke in Cameroon In Gerdes gallery we are shown the love of patterns and symmetries that are the result of centuries of exultant exploration Enjoy Donald W Crowe Professor of Mathematics Emeritus University of Wisconsin [Drinking from the Cosmic Gourd](#) B. Nyamnjoh, 2017-03-15 This book questions colonial and apartheid ideologies on being human and being African ideologies that continue to shape how research is conceptualised taught and practiced in universities across Africa Africans immersed in popular traditions of meaning making are denied the right by those who police the borders of knowledge to think and represent their realities in accordance with the civilisations and universes they know best Often the ways of life they cherish are labelled and dismissed too eagerly as traditional knowledge by some of the very African intellectual elite they look to for protection The book makes a case for sidestepped traditions of knowledge It draws attention to Africas possibilities prospects and emergent capacities for being and becoming in tune with its creativity and imagination It speaks to the nimble footed flexible minded frontier African at the crossroads and junctions of encounters facilitating creative conversations and challenging regressive logics of exclusionary identities The book uses Amos Tutuolas stories to question dualistic assumptions about reality and scholarship and to call for conviviality interconnections and interdependence between competing knowledge traditions in Africa

Reviewing **Mathematics In African History And Cultures An Annotated Bibliography**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Mathematics In African History And Cultures An Annotated Bibliography**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Mathematics In African History And Cultures An Annotated Bibliography

1. Understanding the eBook Mathematics In African History And Cultures An Annotated Bibliography
 - The Rise of Digital Reading Mathematics In African History And Cultures An Annotated Bibliography
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics In African History And Cultures An Annotated Bibliography
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics In African History And Cultures An Annotated Bibliography
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics In African History And Cultures An Annotated Bibliography
 - Personalized Recommendations
 - Mathematics In African History And Cultures An Annotated Bibliography User Reviews and Ratings

- Mathematics In African History And Cultures An Annotated Bibliography and Bestseller Lists
- 5. Accessing Mathematics In African History And Cultures An Annotated Bibliography Free and Paid eBooks
 - Mathematics In African History And Cultures An Annotated Bibliography Public Domain eBooks
 - Mathematics In African History And Cultures An Annotated Bibliography eBook Subscription Services
 - Mathematics In African History And Cultures An Annotated Bibliography Budget-Friendly Options
- 6. Navigating Mathematics In African History And Cultures An Annotated Bibliography eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics In African History And Cultures An Annotated Bibliography Compatibility with Devices
 - Mathematics In African History And Cultures An Annotated Bibliography Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics In African History And Cultures An Annotated Bibliography
 - Highlighting and Note-Taking Mathematics In African History And Cultures An Annotated Bibliography
 - Interactive Elements Mathematics In African History And Cultures An Annotated Bibliography
- 8. Staying Engaged with Mathematics In African History And Cultures An Annotated Bibliography
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics In African History And Cultures An Annotated Bibliography
- 9. Balancing eBooks and Physical Books Mathematics In African History And Cultures An Annotated Bibliography
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics In African History And Cultures An Annotated Bibliography
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics In African History And Cultures An Annotated Bibliography
 - Setting Reading Goals Mathematics In African History And Cultures An Annotated Bibliography
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics In African History And Cultures An Annotated Bibliography
 - Fact-Checking eBook Content of Mathematics In African History And Cultures An Annotated Bibliography
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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