



African Fractals

MODERN COMPUTING
AND INDIGENOUS DESIGN

RON EGLASH

African Fractals Modern Computing And Indigenous Design

Donald Maclurcan, Natalia Radywyl



African Fractals Modern Computing And Indigenous Design:

African Fractals Ron Eglash, 1999 Fractals are characterized by the repetition of similar patterns at ever diminishing scales Fractal geometry has emerged as one of the most exciting frontiers on the border between mathematics and information technology and can be seen in many of the swirling patterns produced by computer graphics It has become a new tool for modeling in biology geology and other natural sciences Anthropologists have observed that the patterns produced in different cultures can be characterized by specific design themes In Europe and America we often see cities laid out in a grid pattern of straight streets and right angle corners In contrast traditional African settlements tend to use fractal structures circles of circles of circular dwellings rectangular walls enclosing ever smaller rectangles and streets in which broad avenues branch down to tiny footpaths with striking geometric repetition These indigenous fractals are not limited to architecture their recursive patterns echo throughout many disparate African designs and knowledge systems Drawing on interviews with African designers artists and scientists Ron Eglash investigates fractals in African architecture traditional hairstyling textiles sculpture painting carving metalwork religion games practical craft quantitative techniques and symbolic systems He also examines the political and social implications of the existence of African fractal geometry His book makes a unique contribution to the study of mathematics African culture anthropology and computer simulations *Global Africa* Dorothy Hodgson, Judith Ann-Marie Byfield, 2017-08 Global Africa will complicate conventional views of Africa as a place of violence despair and victimhood a place and space that other people states and organizations act on and steal from Instead they aim to document some of the significant global connections circulations and contributions that African people ideas and goods have made in the world not just in the United States but in South Asia Latin America Europe and elsewhere They will showcase new framings of Africa but will not romanticize the conditions and circumstances in which too many people on the continent currently live The essays in this volume will amplify those voices that offer complex and insightful explanations strategies for solutions and inspiration for the future Provided by publisher Uwenzi David O. Akombo, Baruti I. Katembo, Kmt G. Shockley, 2015-12-30 UWENZI The Pan African Factor A 21st Century View seeks to facilitate a much needed and provocative 21st century dialogue on optimizing the global linkage networking and appreciation of African peoples resources culture and or interests i e Pan Africanism As a focus point the book posits and explains the need and rationale for Africa and its Diaspora to become reciprocal resources for each other **Organizational Development and Change Theory** Tonya Henderson, David M. Boje, 2015-08-11 This book offers a fresh perspective on organizational development and change theory and practice Building on their recent work in quantum storytelling theory and complexity theory Henderson and Boje consider the implications of fractal patterns in human behavior with a view toward ethics in organization development for the modern world Building on Gilles Deleuze and Felix Guattari's 1987 ontology of multiple moving and intersecting fractal processes the authors offer readers an understanding of how managing and organizing can

be adapted to cope with the turbulence and complexity of different organizational situations and environments They advocate a sustainable co creative brand of agency and introduce appropriate simple tools to support organizational development practitioners This book offers theory and research methods to management and organization scholars along with praxis advice to practicing managers

The Theory of Epistemic Fields Kofi Kissi Dompere, 2024-08-13 The book is about the development of the theory of epistemic fields with the corresponding relational and information fields as a framework for the understanding of strategies and tactics of the theory of knowing as the production of intellectual investment flows and the theory of knowledge accumulation as the production of intellectual capital stocks in systems of factories and departments providing the foundations for the development of open algorithms in the open space of problem solution dualities The concepts and the roles of thinking and reasoning with curiosity creativity hope Ill posed problems phantom problems unsolved problems misinformation disinformation fake news and courage are introduced defined and analyzed on the cognitive journeys over the space of ignorance knowledge dualities where dualistic polar conflicts between duals in the space of ignorance knowledge dualities are resolved with the instruments of fuzzy optimization the results of which are used to induced the zones of ignorance the zones of knowledge and the zones of contentions A complete development of the set of connecting paths of spaces and sub spaces is provided where all varieties categories and spaces reside in dualistic polar structures with knowledge stock viewed as a single tree with the same roots one trunk many branches and a fruit cocktail The ontological space contains the space of actual potential dualities as the primary category of knowing and the epistemological space contains the space of imagination reality dualities as the derived category of knowing within the space of primary derived dualities The space of potentials contains the space of imaginations which contains the sub spaces of possibility impossibility probability improbability and possibility probability dualities with corresponding spaces of necessity freedom and anticipation expectation dualities leading to the conception of the possible world impossible world dualities in the space of semantic non semantic dualities This book is also a continuation of the sequence of my works on the theories of paradigms of thought rationality info statics info dynamics entropy problem solution dualities in self contained mathematics and philosophy and their relational connectivity to information language knowing knowledge cognitive practices and open machining learning relative to nominalism and the space of construction reduction dualities over the spaces of fundamental applied production consumption input output and cost benefit dualities

Ancestral Knowledge Meets Computer Science Education Cueponcaxochitl D. Moreno Sandoval, 2019-03-25 This book illustrates a pathway for knowledge production to benefit from interweaving the seemingly disparate historical experiences of Indigenous Peoples and computer science education The resulting practice of ancestral computing for sustainability holds the power to mitigate the destructive forces of the field while extending the potential of traditionally underserved and unheard populations Reimagining the field of computer science interwoven with traditional lifeways presents compelling new discoveries in research and harnesses the

rich tapestries that are Indigenous populations Returning healthy lifeways to a center stage long occupied by tightly controlled Eurocentric learning methods opens worlds of opportunity that have felt lost to time

Urban Health in Africa Elaine O. Nsoesie, Blessing U. Mberu, 2025-04-08 Explores Africa's rapid urbanization and its crucial implications for health prosperity and sustainability Africa is home to many of the world's fastest growing cities In this book editors Elaine O Nsoesie and Blessing U Mberu bring together a diverse group of scholars to explore the critical impacts of rapid urbanization on the health and prosperity of Africans Through compelling case studies contributors highlight the unique challenges and innovative solutions in Africa's urban health Essays cover a diverse range of topics from housing to climate change in various cities across Africa Considerations for urban health are vital to the continent's potential to prosper as it grows in population and this book addresses critical issues related to infrastructure transportation natural disasters and conflict Covering a broad selection of topics and focusing on specific cities throughout Africa this book examines everything from education and economic development to pollution and the role of data in urban health and development From the resilience and creativity of slum communities to groundbreaking policies addressing air pollution and mental health each chapter provides valuable insights into the continent's urban health landscape Urban Health in Africa is an essential read for policymakers researchers and anyone interested in shaping a healthier future for Africa's cities and understanding the vibrant and complex realities of its urban life

Responsible AI in Africa Damian Okaibedi Eke, Kutoma Wakunuma, Simisola Akintoye, 2023-01-01 This open access book contributes to the discourse of Responsible Artificial Intelligence AI from an African perspective It is a unique collection that brings together prominent AI scholars to discuss AI ethics from theoretical and practical African perspectives and makes a case for African values interests expectations and principles to underpin the design development and deployment of AI in Africa The book is a first in that it pays attention to the socio cultural contexts of Responsible AI that is sensitive to African cultures and societies It makes an important contribution to the global AI ethics discourse that often neglects AI narratives from Africa despite growing evidence of DDD in many domains Nine original contributions provide useful insights to advance the understanding and implementation of Responsible AI in Africa including discussions on epistemic injustice of global AI ethics opportunities and challenges an examination of AI co-bots and chatbots in an African work space gender and AI a consideration of African philosophies such as Ubuntu in the application of AI African AI policy and a look towards a future of Responsible AI in Africa This is an open access book

Nanotechnology and Global Sustainability Donald Maclurcan, Natalia Radywyl, 2018-09-03 The rise of collaborative consumption peer to peer systems and not for profit social enterprise heralds the emergence of a new era of human collectivity Increasingly this consolidation stems from an understanding that big banner issues such as climate change are not the root causes of our present global predicament There is a growing and collective view that issues such as this are actually symptoms of a much more vicious seemingly insurmountable condition our addiction to economic consumption and population growth in a world of finite

resources Nanotechnology and Global Sustainability uses nanotechnology the product of applied scientific knowledge to control and utilize matter at atomic and molecular scales as a lens through which to explore the interrelationship between innovation politics economy and sustainability This groundbreaking book addresses how stakeholders can actively reshape agendas to create positive and sustainable futures through this latest controversial cross sectoral technology It moves beyond issues of efficiency productivity and utility exploring the insights of 22 contributors from around the world whose work spans the disciplines of science and the humanities Their combined knowledge reinforced with various case studies introduces an exciting prospect how we can innovate without economic growth This new volume in the Perspectives in Nanotechnology series is edited by Dr Donald Maclurcan and Dr Natalia Radywyl Dr Maclurcan is a social innovator and Honorary Research Fellow with the Institute for Nanoscale Technology at the University of Technology Sydney Australia Dr Radywyl is a social researcher and Honorary Research Fellow in the School of Culture and Communication at the University of Melbourne Australia She is also an Adjunct Research Fellow in the Faculty of Life and Social Sciences at Swinburne University of Technology Melbourne This book is written for a wide audience and will be of particular interest to activists scholars policy makers scientists business professionals and others who seek an understanding of how we might justly transition to sustainable societies

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 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 **Re-engaging the African Diasporas**

Charles Quist-Adade, Wendy Royal, 2016-08-17 Re engaging the African Diasporas Pan Africanism in the Age of Globalization is the second volume in the Kwame Nkrumah International Conference series and brings together twenty selected papers presented at the Third Kwame Nkrumah International Conference held at Kwantlen Polytechnic University on August 19-21 2014 Two premises inform this volume 1 If the history of slavery and its vestiges divided and continue to divide the continent and its Diasporas modern technology should be harnessed to bridge that divide and 2 the continent's development is a boon to the development of what the African Union has dubbed Africa's Sixth Region The book threads together papers that seek to give academic and intellectual impetus to tie the continent's development to that of the African Diaspora The goal is to end the inertia and inward looking on the part of scholars and academics in both Africa and African International or Global Africa and re engage one another in more productive ways By harnessing the enormous resources available in our internet age and riding the cresting wave of globalization the task of re engagement will be vastly enhanced and the debates and discussions in this volume will serve to facilitate this re engagement A main highlight of the conference was a special tribute to Nelson Mandela to honour his death in December 2013 and celebrate 20 years of South African independence In these papers scholars examine Mandela's role in the transition of South Africa from a racist state to a democratic nation They critically examine how the ANC's policies have impacted post Apartheid South Africa and question what alternatives remain for the

future Sustainable Development in Post-Pandemic Africa Fred Olayele,Yiagadeesen Samy,2022-10-21 With both domestic and external financing expected to dry up in the wake of the COVID 19 pandemic this book argues that there is a need for fresh ideas and new strategies for achieving sustainable development in Africa In addition to triggering the most severe recession in nearly a century the COVID 19 pandemic has disrupted global value chains causing unprecedented damage to healthcare systems economies and well being hitting the world s most vulnerable people the hardest Even before the pandemic Africa was suffering from the effects of low commodity prices sluggish GDP growth high debt levels low levels of domestic savings and weak private capital inflows This book argues that now as the continent emerges from the current crisis it will be important to reconfigure current financing sources under a forward looking framework that incorporates other non traditional financing tools and mechanisms such as public private partnerships sovereign wealth funds gender lens investing new growth drivers and emerging and disruptive technologies Finally the book concludes by adopting a sectoral approach and examining the real economy impacts of new growth drivers such as agriculture value chains industrialization tourism and the blue economy Drawing on a range of original research as well as insights from practice this book will be a useful guide for Global Development and African Studies researchers as well as for policy makers investors finance specialists and global business practitioners and entrepreneurs **Will Alexander's Poetics** Joshua Schuster,2025-09-26

This volume brings together academic and poetic essays which focus on Will Alexander s complete oeuvre The collection explores Alexander s long career in African American avant garde poetry and sheds light on other genres of Alexander s work in addition to poetry including essays plays aphorisms novels dialogues and drawings Each contribution contextualizes Alexander s work in the many traditions and literatures his work draws from including African American poetics ecopoetics post colonial and anti colonial poetics bio and geo histories and global practices of consciousness raising and spiritual transformation among other topics The volume also includes a new interview with Alexander as well as one of his long unpublished poems Alexander s writings are multi generic and traverse many fields and states of consciousness This edited collection thus provides a deep and sustained engagement with Alexander s work surveying how it has transformed the landscape of poetics the avant garde and the individual reader 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 Kmet a k a Ancient Egypt Well that long drought has ended with the publication of Kwarteng 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 Science Research and Education in Africa Alain L. Fymat,Joachim Kapalanga,2017-03-07 For various economic and political reasons many African countries lag behind the rest of the industrialised world in scientific and medical research and development However the presence of intellectual islands scattered across the continent gives hope that this is only a transient situation on the cusp of undergoing a profound and beneficial change For this reason the Society for the Advancement of Science in Africa was established to catalyse and contribute to this needed evolution Its mission is to contribute to Africa s economic advancement and sustainability through science research education and innovation This book provides a selection of papers from the Advancement of Science in Africa s third annual conference The conference was held under the overarching theme of science research and education in Africa with several important sub themes including but not limited to improving health research and disease surveillance education epidemic diseases with high mortality promoting women s interest in science careers fostering youth development with science education The collection illustrates how although the chapter contributors come from various countries and universities representing their own academic research they all share a common interest in advancing science research and education in Africa **Cosmic Birthright** Michael W.P. Moore,2025-05-11 Cosmic Birthright Healing Rhythms of the Ancestors is a poetic invocation a rhythmic reckoning and a spiritual guidebook born of ancient memory and modern longing Within these soul stirring pages lies a map not merely to healing but to remembrance Anchored in African indigenous traditions this book uses rhythm as language sound as medicine and memory as a gateway The ancestors are not dead they

are rhythmic presences encoded in your heartbeat footsteps and your breath This is a sacred offering to anyone ready to listen This is for Those who feel a drum inside their chest and don t know why Descendants seeking reconnection repair and ritual Cultural educators spiritual seekers and lovers of oral tradition What you ll discover inside The healing science of ancestral rhythm and the sacred drum Narrative ceremonies to awaken inner knowing Reflections and rituals that help you step into your sacred power Whether you are walking through grief seeking purpose or carrying generational weight Cosmic Birthright is a remembering spell wrapped in rhythm It doesn t just inform it transforms Your ancestors are not in the past They are waiting in the beat Approx 12 000 words *Information Technology and Indigenous People* Dyson, Laurel Evelyn,Hendriks, Max,Grant, Stephen,2006-08-31 This book provides theoretical and empirical information related to the planning and execution of IT projects aimed at serving indigenous people It explores cultural concerns with IT implementation including language issues questions of cultural appropriateness Provided by publisher **Chaos Theory in Politics** Santo Banerjee,Şefika Şule Erçetin,Ali Tekin,2014-05-02 The present work investigates global politics and political implications of social science and management with the aid of the latest complexity and chaos theories Until now deterministic chaos and nonlinear analysis have not been a focal point in this area of research This book remedies this deficiency by utilizing these methods in the analysis of the subject matter The authors provide the reader a detailed analysis on politics and its associated applications with the help of chaos theory in a single edited volume *Inventing an African Alphabet* Ramon Sarró,2023-02-23 Combines biography art and religion to explore Kongo identity and culture and the relationship between innovation and revelation

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African Fractals Modern Computing And Indigenous Design Introduction

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