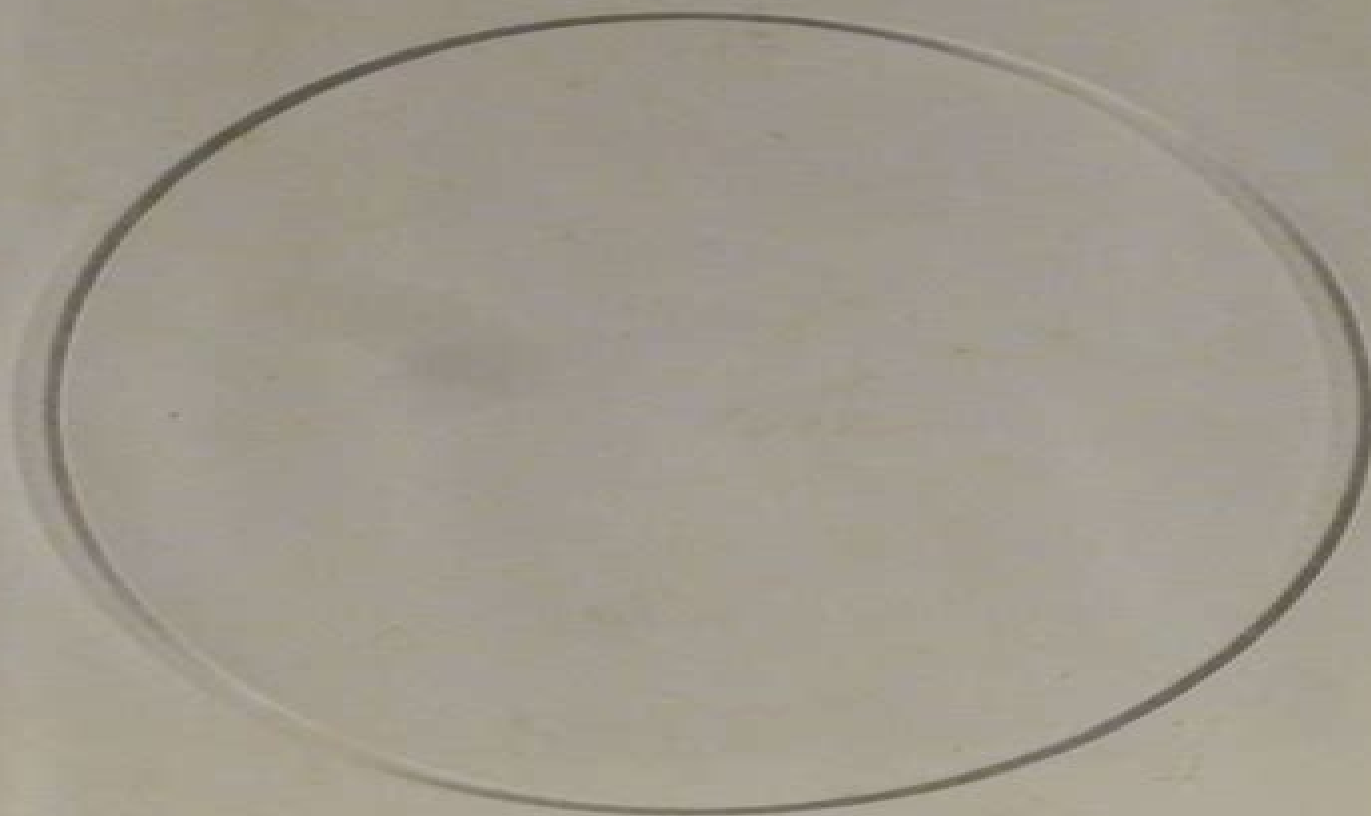


THE NOTHING THAT IS
A Natural History of Zero



Robert Kaplan

Nothing That Is A Natural History Of Zero

Miriam Jacobson



Nothing That Is A Natural History Of Zero:

The ^ANothing that Is Robert Kaplan, 1999-10-28 A symbol for what is not there an emptiness that increases any number it s added to an inexhaustible and indispensable paradox As we enter the year 2000 zero is once again making its presence felt Nothing itself it makes possible a myriad of calculations Indeed without zero mathematics as we know it would not exist And without mathematics our understanding of the universe would be vastly impoverished But where did this nothing this hollow circle come from Who created it And what exactly does it mean Robert Kaplan s *The Nothing That Is A Natural History of Zero* begins as a mystery story taking us back to Sumerian times and then to Greece and India piecing together the way the idea of a symbol for nothing evolved Kaplan shows us just how handicapped our ancestors were in trying to figure large sums without the aid of the zero Try multiplying CLXIV by XXIV Remarkably even the Greeks mathematically brilliant as they were didn t have a zero or did they We follow the trail to the East where a millennium or two ago Indian mathematicians took another crucial step By treating zero for the first time like any other number instead of a unique symbol they allowed huge new leaps forward in computation and also in our understanding of how mathematics itself works In the Middle Ages this mathematical knowledge swept across western Europe via Arab traders At first it was called dangerous Saracen magic and considered the Devil s work but it wasn t long before merchants and bankers saw how handy this magic was and used it to develop tools like double entry bookkeeping Zero quickly became an essential part of increasingly sophisticated equations and with the invention of calculus one could say it was a linchpin of the scientific revolution And now even deeper layers of this thing that is nothing are coming to light our computers speak only in zeros and ones and modern mathematics shows that zero alone can be made to generate everything Robert Kaplan serves up all this history with immense zest and humor his writing is full of anecdotes and asides and quotations from Shakespeare to Wallace Stevens extend the book s context far beyond the scope of scientific specialists For Kaplan the history of zero is a lens for looking not only into the evolution of mathematics but into very nature of human thought He points out how the history of mathematics is a process of recursive abstraction how once a symbol is created to represent an idea that symbol itself gives rise to new operations that in turn lead to new ideas The beauty of mathematics is that even though we invent it we seem to be discovering something that already exists The joy of that discovery shines from Kaplan s pages as he ranges from Archimedes to Einstein making fascinating connections between mathematical insights from every age and culture A tour de force of science history *The Nothing That Is* takes us through the hollow circle that leads to infinity

The Nothing that is Robert Kaplan, 1999 In this text Robert Kaplan explores the peculiar course that the notion of nothing or its mathematical representative zero has taken throughout history Forced into our awareness 4000 years ago by the need to count ever larger multitudes zero drifted in and out of focus disappeared for centuries then swept from the East into the medieval world with fears and superstitions crouched around it Did we discover or invent it Was it the devil s work Is it a number or a fiction Its

users came to see that it held immense power to unriddle the universe leading to profound insights into the mind and the world And now new layers are coming to light our computers speak only in zeros and ones and for a cosmologist zero alone can be made to generate everything

The Origin and Significance of Zero, 2024-03-11 Winner of the 2024 Outstanding Academic Titles award in Choice a publishing unit of the Association of College religion philosophy arts and mathematics and conversely inhibited by the absence of or aversion to such a concept of Nothingness in the West But not all scholars agree Join the debate

Shakespeare and Science Tom Rutter, 2024-08-24 As a figurehead for the literary humanities and a dramatist whose plays feature fairies ghosts and spirits Shakespeare may not be the first author that comes to mind when thinking about science Tom Rutter shows however that in his plays and poetry Shakespeare made detailed use of the knowledge and theories of the cosmos the natural world and human biology that were available to him These range from astronomical and anatomical ideas derived from medieval scholars Islamic philosophers and ancient Greek and Roman authorities through to the challenges issued to those earlier models by more recent figures such as Copernicus and Vesalius Shakespeare s treatment of these materials was informed by the poetic and dramatic media in which he worked the dialogic nature of drama enabled an approach that could be provisional exploratory and tolerant of uncertainty and contradiction Shakespeare made the early modern playhouse a venue for the production of scientific understanding through performance illusion and the creative use of space As well as surveying current scholarship that contextualizes Shakespeare s work in relation to histories of meteorology matter theory humoral physiology racialization mathematics and more Shakespeare and Science offers detailed original readings of a variety of texts including the Histories Hamlet Antony and Cleopatra Othello King Lear The Tempest the Sonnets and Lucrece It also makes extensive reference to works by Shakespeare s near contemporaries such as Robert Recorde William Fulke Juan Huarte and Thomas Elyot Its four chapters focus on astronomy and meteorology matter the body and mathematics Rutter s overall approach is informed by recent studies that interrogate science as a concept and that question both the boundary between literature and science and the idea of a seventeenth century scientific revolution

Cryptography in C and C++ Michael Welschenbach, 2001-03-19 Cryptography in C and C++ mainly focuses on the practical aspects involved in implementing public key cryptography methods such as the RSA algorithm that was released from patent protection It also gives both a technical overview and an implementation of the Rijndael algorithm that was selected as the Advanced Encryption Standard by the U S government Author Michael Welschenbach avoids complexities by explaining cryptography and its mathematical basis in terms a programmer can easily understand This book offers a comprehensive yet relentlessly practical overview of the fundamentals of modern cryptography It contains a wide ranging library of code in C and C++ including the RSA algorithm completed by an extensive Test Suite that proves that the code works correctly Readers will learn step by step how to implement a platform independent library for the all important multiprecision arithmetic used in modern cryptography This is followed by an implementation of the

cryptographic algorithms themselves The CD ROM includes all the programs presented in the book x86 assembler programs for basic arithmetical operations implementations of the new Rijndael Advanced Encryption Standard algorithm in both C and C and more

Mathematics and Late Elizabethan Drama Joseph Jarrett, 2019-11-30 This book considers the influence that sixteenth century and early seventeenth century mathematical thinking exerted on the writing and production of popular drama between about 1587 and 1603 It concentrates upon six plays by five early modern dramatists Tamburlaine Part 1 1587 and Tamburlaine Part 2 1587 by Christopher Marlowe Friar Bacon and Friar Bungay 1589 by Robert Greene Old Fortunatus 1599 by Thomas Dekker Hamlet 1600 by William Shakespeare and The Tragedy of Hoffman 1603 by Henry Chettle Each chapter analyses how the terms concepts and implications of contemporary mathematics impacted upon these plays vocabularies forms and aesthetic and dramaturgical effects and affects

Philosophy And Methodology Of Information: The Study Of Information In The Transdisciplinary Perspective Gordana Dodig-crnkovic, Mark Burgin, 2019-04-22 The book gives up to date multi aspect exposition of the philosophy and methodology of information and related areas within the nascent field of the study of information It presents the most recent achievements ideas and opinions of leading researchers in this domain as well as from physicists biologists and social scientists Collaboration of researchers from different areas and fields opens new perspectives for the understanding of information essential in the innovative development of science technology and society The book is meant for readers conducting research into any aspect of information information society and information technology The ideas presented give new insights for those who develop or implement scientific technological or social applications They are especially for those who are participating in setting the goals for science in general and sciences of information in particular

On the Nature of Ecological Paradox Michael Charles Tobias, Jane Gray Morrison, 2021-05-18 This work is a large powerfully illustrated interdisciplinary natural sciences volume the first of its kind to examine the critically important nature of ecological paradox through an abundance of lenses the biological sciences taxonomy archaeology geopolitical history comparative ethics literature philosophy the history of science human geography population ecology epistemology anthropology demographics and futurism The ecological paradox suggests that the human biological and from an insular perspective successful struggle to exist has come at the price of isolating H sapiens from life sustaining ecosystem services and far too much of the biodiversity with which we find ourselves at crisis level odds It is a paradox dating back thousands of years implicating millennia of human machinations that have been utterly ruinous to biological baselines Those metrics are examined from numerous multidisciplinary approaches in this thoroughly original work which aids readers particularly natural history students who aspire to grasp the far reaching dimensions of the Anthropocene as it affects every facet of human experience past present and future and the rest of planetary sentience With a Preface by Dr Gerald Wayne Clough former Secretary of the Smithsonian Institution and President Emeritus of the Georgia Institute of Technology Foreword by Robert Gillespie President of the non profit

Population Communication **Value Added Tax and Direct Taxation** Michael Lang, Peter Melz, Eleonor Kristoffersson, Thomas Ecker, 2009 This book provides a comprehensive in depth analysis of the similarities and differences between consumption taxes and direct taxes Fifty contributions are included written by academics practitioners and representatives from several international tax administrations and institutions You Do Not Talk About Fight Club Read Mercer Schuchardt, 2015-01-06 Pervasive and multidisciplinary this insightful exploration discusses how and why this seminal work developed and continues to grow such a cult following When Fight Club punched its way onto the scene a decade ago it provided an unprecedented glimpse into the American male s psyche and rapidly turned into a euphemism for a variety of things that should be just understood and not otherwise acknowledged Key to its success is the variety of lenses through which the story can be interpreted is it a story of male anxiety in a metrosexual world of ritual religion in a secular age of escape from totalitarian capitalism or the spiritual malaise induced by technologically oriented society Writers conspiracy theorists and philosophers are among those ready to talk about Fight Club s ability to be all these and more

The Book of Ecclesiastes (Qohelet) and the Path to Joyous Living T. A. Perry, 2015-06-30 This is the first full length study of Ecclesiastes using methods of philosophical exegesis specifically those of the modern French philosophers Levinas and Blanchot T A Perry opens up new horizons in the philosophical understanding of the Hebrew Bible offering a series of meditations on its general spiritual outlook Perry breaks down Ecclesiastes motto all is vanity and returns vanity to its original concrete meaning of breath the breath of life This central and forgotten teaching of Ecclesiastes leads to new areas of breath research related both to environmentalism and breath control Figures of Radical Absence Alexandra-Ecaterina Irimia, 2023-10-04 What is there to see in invisible artworks empty books or blank screens How do formal absences generate meaning Constructing an argument by way of montage this book is an annotated inventory of textual visual and conceptual figures of absence Spanning different media it reveals a creative tradition that uses absence not as a negative aesthetic category but as a productive state of radical indeterminacy with its own politics and poetics Although post structuralism highlighted the importance of what is offstage lost forgotten hidden or discarded silent or silenced the poetics and politics of absence much like its ethics and aesthetics have rarely been discussed across media and disciplines This book proposes the concept of radical absence to describe a certain tradition of resistance to ontology predication and representation contesting their reliance on a metaphysics of presence Apophatic speech empty signifiers and figural voids are some of the figures through which radical absence becomes apparent with unprecedented intensity in twentieth century theory literature film and the arts Phantasmatic and outrageous such figures play with creative strategies of dematerialization irony and other forms of discursive undoing Therefore absence becomes more than a simple theme it reflects back on the medium and the meaning making conditions under which it operates Elusive and imprecise as an object of study absence requires more subtle and flexible epistemological frameworks than have been available to date This monograph proposes we think of it not only as

a counter concept for presence but also and perhaps more productively as infinite spacing deferral fragmentation and displacement

Metaphors of Economy, 2016-08-01 In recent years the metaphor of economy has proved to have an immense explanatory power in literary and cultural criticism Everything can be expressed and analysed in terms borrowed from political economy Language texts social structures and cultural relationships can be construed in the dynamic terms made available by the metaphor of economy and more specifically the economy of the metaphor The metaphor of economy allows to show the dynamic processes of exchange circulation and interested negotiation The essays in this volume display approaches to cultural and discursive practices derived from the methods and texts of economics They provide a body of literary and cultural criticism founded upon economic paradigms which makes apparent the genealogy of our economic thought and the suggestion that looking at human exchange can enrich our understanding of culture The interest of this volume is manifold it gives a historical account of the development of economics elucidates the emergence of theories governed by economic metaphors and clarifies the impact of the metaphor on theories of textuality It also provides an exchange between economists and literary and cultural critics by combining literary and cultural criticism with economics and covers a wide range of topics which are of interest to scholars from various disciplines This volume provides a critical exchange which hopes to enrich both economics and literature

Instruments in Art and Science Helmar Schramm, Ludger Schwarte, Jan Lazardzig, 2014-08-29 This volume presents a collection of original papers at the intersection of philosophy the history of science cultural and theatrical studies Based on a series of case studies on the 17th century it contributes to an understanding of the role played by instruments at the interface of science and art The papers pursue the hypothesis that the development and construction of instruments make a substantive contribution to the opening of new fields of knowledge the development of new cultural practices but also to the delineation of particular genres methods and disciplines This perspective leads the authors to reflect anew on what actually defines an instrument and to develop a series of basic questions to determine what an instrument is which actions does the instrument incorporate which actions does the instrument make possible when do the objects of examination themselves become instruments what skills are required to use an instrument which skills does it produce With its combination of new theoretical models and historical case studies its detailed demonstration of the mutual influence of art and science with the instrument as the point of intersection this volume enters new territory It is of great value for all those interested in the history of our perception of instruments Besides the editors the authors of the papers are J rg Jochen Berns Olaf Breidbach Georges Didi Huberman Peter Galison Sybille Kr mer Dieter Mersch Hans J rg Rheinberger Wilhelm Schmidt Biggemann and Otto Sibum

The A to Z of Everyday Things Janice Weaver, 2012-07-10 Why are Americans superstitious about two dollar bills Why do we have twelve months in a year instead of ten or six or even twenty Why do we celebrate foolishness on the first day of April Why is yawning contagious Why is the number thirteen considered to be unlucky in so many different cultures The A to Z of Everyday Things tells the surprising

stories behind twenty six seemingly ordinary objects and activities From calendars and money to tulips and sideburns this book uses commonplace items to explore the rich but often overlooked cultural history of our everyday lives In the end The A to Z of Everyday Things offers us a picture of modern life and how we got here in a funny quirky and highly readable form

Barbarous Antiquity Miriam Jacobson,2014-08-25 In the late sixteenth century English merchants and diplomats ventured into the eastern Mediterranean to trade directly with the Turks the keepers of an important emerging empire in the Western Hemisphere and these initial exchanges had a profound effect on English literature While the theater investigated representations of religious and ethnic identity in its portrayals of Turks and Muslims poetry Miriam Jacobson argues explored East West exchanges primarily through language and the material text Just as English markets were flooded with exotic goods so was the English language awash in freshly imported words describing items such as sugar jewels plants spices paints and dyes as well as technological advancements such as the use of Arabic numerals in arithmetic and the concept of zero Even as these Eastern words and imports found their way into English poetry poets wrestled with paying homage to classical authors and styles In Barbarous Antiquity Jacobson reveals how poems adapted from Latin or Greek sources and set in the ancient classical world were now reoriented to reflect a contemporary mercantile Ottoman landscape As Renaissance English writers including Shakespeare Jonson Marlowe and Chapman weighed their reliance on classical poetic models against contemporary cultural exchanges a new form of poetry developed positioned at the crossroads of East and West ancient and modern Building each chapter around the intersection of an Eastern import and a classical model Jacobson shows how Renaissance English poetry not only reconstructed the classical past but offered a critique of that very enterprise with a new set of words and metaphors imported from the East

Introductory Lectures on Lacan Astrid Gessert,2018-05-15 Lacan developed his theory and practice of psychoanalysis on the basis of Freud s original work In his return to Freud he not only elaborated and revised some of Freud s innovative ideas but turned to important questions and problems in Freud s theory that had remained obscure and unresolved and provided a new way of articulating these issues and their implication for psychoanalytic theory and practice This book offers a selection of chapters about some of the fundamental concepts of psychoanalysis The authors aim to explore the trajectory of the development of these concepts from their original basis in Freud s work to their elaboration by Lacan The book will be of interest to readers from different backgrounds including the clinical and academic field social and cultural studies and the arts for whom psychoanalytic ideas may be a relatively new field to explore or who are looking for new perspectives to develop their ideas about psychoanalysis

The Great Mathematicians of Bharat Partha Pratim Ray ,2023-12-20 The Great Mathematicians of Bharat emerges as a seminal work aligning perfectly with the vision of the National Education Policy NEP 2020 which emphasizes the integration and appreciation of Indian Knowledge Systems IKS in contemporary education This book meticulously documents the rich legacy of India s mathematical geniuses serving as a crucial resource in rekindling interest and respect for Bharat s profound

mathematical traditions It underscores the symbiotic relationship between cultural ethos and scientific inquiry highlighting how Indian mathematicians not only contributed to the field of mathematics but also how their work was deeply interwoven with Hindu spiritual and cultural practices By chronicling the journey from ancient sages to modern masters the book provides a comprehensive view of the evolution of mathematical thought in Bharat thus fulfilling NEP 2020 s objective of integrating indigenous knowledge with modern academic frameworks In doing so it not only educates but also inspires setting a precedent for future academic endeavours to explore and celebrate India s rich intellectual heritage **The**

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