

# MATHEMATICS

in 20th-Century Literature & Art



ROBERT TUBBS

**RD Boyd** 

Mathematics in Twentieth-Century Literature and Art Robert Tubbs, 2014-07-15 Chips away at the notion of an accidental relationship between math and art and literature During the twentieth century many artists and writers turned to abstract mathematical ideas to help them realize their aesthetic ambitions Man Ray Marcel Duchamp and perhaps most famously Piet Mondrian used principles of mathematics in their work Was it mere coincidence or were these artists simply following their instincts which in turn were ruled by mathematical underpinnings such as optimal solutions for filling a space If math exists within visual art can it be found within literary pursuits In short just what is the relationship between mathematics and the creative arts In this provocative original exploration of mathematical ideas in art and literature Robert Tubbs argues that the links are much stronger than previously imagined and exceed both coincidence and commonality of purpose Not only does he argue that mathematical ideas guided the aesthetic visions of many twentieth century artists and writers Tubbs further asserts that artists and writers used math in their creative processes even though they seemed to have no affinity for mathematical thinking In the end Tubbs makes the case that art can be better appreciated when the math that inspired it is better understood An insightful tour of the great masters of the last century and an argument that challenges long held paradigms Mathematics in Twentieth Century Literature and Art will appeal to mathematicians humanists and artists as well Mathematics in Twentieth-Century Literature & as instructors teaching the connections among math literature and art Art Robert Tubbs, 2021-04-27 The author of What Is a Number examines the relationship between mathematics and art and literature of the 20th century During the twentieth century many artists and writers turned to abstract mathematical ideas to help them realize their aesthetic ambitions Man Ray Marcel Duchamp and perhaps most famously Piet Mondrian used principles of mathematics in their work Was it coincidence or were these artists following their instincts which were ruled by mathematical underpinnings such as optimal solutions for filling a space If math exists within visual art can it be found within literary pursuits In short just what is the relationship between mathematics and the creative arts In this exploration of mathematical ideas in art and literature Robert Tubbs argues that the links are much stronger than previously imagined and exceed both coincidence and commonality of purpose Not only does he argue that mathematical ideas guided the aesthetic visions of many twentieth century artists and writers Tubbs further asserts that artists and writers used math in their creative processes even though they seemed to have no affinity for mathematical thinking In the end Tubbs makes the case that art can be better appreciated when the math that inspired it is better understood An insightful tour of the great masters of the last century and an argument that challenges long held paradigms this book will appeal to mathematicians humanists and artists as well as instructors teaching the connections among math literature and art Though the content of Tubbs s book is challenging it is also accessible and should interest many on both sides of the perceived divide between mathematics and the arts Choice **Joyce and Geometry** Ciaran McMorran, 2020-01-15 Joyce and Geometry reveals the full extent to which

the modernist writer James Joyce was influenced by the radical theories of non Euclidean geometry Tracing Joyce's obsession with measuring and mapping space throughout his works Ciaran McMorran delves into a major theme in Joyce s work that has not been thoroughly explored until now Scouting and Scoring Christopher J. Phillips, 2021-03-30 An in depth look at the intersection of judgment and statistics in baseball Scouting and scoring are considered fundamentally different ways of ascertaining value in baseball Scouting seems to rely on experience and intuition scoring on performance metrics and statistics In Scouting and Scoring Christopher Phillips rejects these simplistic divisions He shows how both scouts and scorers rely on numbers bureaucracy trust and human labor to make sound judgments about the value of baseball players Tracing baseball s story from the nineteenth century to today Phillips explains that the sport was one of the earliest fields to introduce numerical analysis and new methods of data collection were supposed to enable teams to replace scouting with scoring But that s not how things turned out From the invention of official scorers and Statcast to the creation of the Major League Scouting Bureau Scouting and Scoring reveals the inextricable connections between human expertise and data science and offers an entirely fresh understanding of baseball **Mathematics in Postmodern American Fiction** Stuart J. Taylor, 2024-04-23 This book delivers an innovative critical approach to better understand U S fiction of the information age and argues that in the last eighty years fiction has become increasingly concerned with its representations of mathematical ideas images and practices In so doing this book provides a fuller transnational account of the place of mathematics in understanding mathematically informed novels Literature and science studies have acknowledged and situated historical points of cultural crossover by emphasising mathematics within this larger intellectual context and not as an unlikely and alien adjunct to post war culture this monograph clarifies how mathematically informed postmodern fictions work in a cognate fashion to other fields undergoing structuralist revolutions. This is especially evident in fiction by the key mathematically literate Postmodern authors upon whom this study focuses namely Thomas Pynchon Don DeLillo and David Foster Wallace through which recent the technological revolutions facilitated by mathematics manifest in cultural discourse

Possibilities of Lyric Manuele Gragnolati, Francesca Southerden, 2020-11-17 Opening to passion as an unsettling transformative force extending desire to the text expanding the self and dissolving its boundaries imagining pleasures outside the norm and intensifying them overcoming loss and reaching beyond death being loyal to oneself and defying productivity resolution and cohesion while embracing paradox non linearity incompletion These are some of the possibilities of lyric that this book explores by reading Petrarch s vernacular poetry in dialogue with that of other poets including Guido Cavalcanti Dante and Shakespeare In the Epilogue the poet Antonella Anedda Angioy engages with Ossip Mandel tam and Paul Celan s dialogue with Petrarch and extends it into the present The Palgrave Handbook of Literature and Mathematics Robert Tubbs, Alice Jenkins, Nina Engelhardt, 2020-12-30 This handbook features essays written by both literary scholars and mathematicians that examine multiple facets of the connections between literature and mathematics These

connections range from mathematics and poetic meter to mathematics and modernism to mathematics as literature Some chapters focus on a single author such as mathematics and Ezra Pound Gertrude Stein or Charles Dickens while others consider a mathematical topic common to two or more authors such as squaring the circle chaos theory Newton's calculus or stochastic processes With appeal for scholars and students in literature mathematics cultural history and history of mathematics this important volume aims to introduce the range fertility and complexity of the connections between mathematics literature and literary theory Chapter 1 is available open access under a Creative Commons Attribution 4 0 International License via link springer com http link springer com Abstraction in Post-War British Literature 1945-1980 Natalie Ferris, 2022 Abstraction in Post War British Literature explores the ways in which writers and thinkers responded to non representational art in the decades following the Second World War By offering a chronological overview of the period in Britain it questions how abstraction came to be discovered absorbed and reimagined in literature The Best Writing on Mathematics 2015 Mircea Pitici, 2016-01-12 The year's finest writing on mathematics from around the world This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2015 makes available to a wide audience many articles not easily found anywhere else and you don't need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today s hottest mathematical debates Here David Hand explains why we should actually expect unlikely coincidences to happen Arthur Benjamin and Ethan Brown unveil techniques for improvising custom made magic number squares Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology Steven Strogatz tells us why it s worth writing about math for people who are alienated from it Lisa Rougetet traces the earliest written descriptions of Nim a popular game of mathematical strategy Scott Aaronson looks at the unexpected implications of testing numbers for randomness and much much more In addition to presenting the year s most memorable writings on mathematics this must have anthology includes a bibliography of other notable writings and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed **David Foster Wallace in Context Clare** Hayes-Brady, 2022-12-01 David Foster Wallace is regarded as one of the most important American writers of the twentieth and twenty first centuries This book introduces readers to the literary philosophical and political contexts of Wallace's work An accessible and useable resource this volume conceptualizes his work within long standing critical traditions and with a new awareness of his importance for American literary studies It shows the range of issues and contexts that inform the work and reading of David Foster Wallace connecting his writing to diverse ideas periods and themes Essays cover topics on gender sex violence race philosophy poetry and geography among many others guiding new and long standing readers in

understanding the work and influence of this important writer *The Art of Uncertainty* Daniel Williams,2024-03-07 Daniel Williams shows how in a profoundly numerical age Victorian novels imagined thought and action in the face of uncertainty

Living by Numbers Steven Connor, 2016-11-15 How do we really think about the world We may use words to tell stories about it or draw pictures to represent it but one thing we do far more than either of those is make calculations of the things that are in it and to do that we use numbers Numbers give shape and texture to almost everything we feel say dream and do a fact that Steven Connor explores in this qualitative assessment of the quantifiable Looking at how numbers play a part in nearly every aspect of our lives he offers a fascinating portrait of the world as a world of numbers Connor explores a host of thought provoking aspects of our numerical existence He looks at the unexpected oddities that shape the loneliest number the number one He looks at counting as a human phenomenon and the ways we negotiate crowds swarms and multitudes He demonstrates the work of calculation as it lies at the heart of poetry jokes painting and music He shows how we use numbers to adjust to uncertainty and chance and how they help us visualize the world in diagrammatic ways and he unveils how numbers even help us think about death Altogether Connor brings into relief an aspect of our lives so ubiquitous that we often can t see it unveiling a rich new way of thinking about our existence The Cambridge History of Science: Volume 5, The Modern Physical and Mathematical Sciences David C. Lindberg, Mary Jo Nye, Roy Porter, Ronald L. Numbers, 2003 A new and comprehensive examination of the history of the modern physical and mathematical sciences Academia. Praktiken des Raums und des Wissens in Universitätserzählungen Laura M. Reiling, 2021-07-02 Bislang nicht oder kaum untersuchte Romane von Patricia Duncker Jeffrey Eugenides Sibylle Lewitscharoff Jonas L scher und Angelika Meier figurieren die Universit t als einen praxeologischen Raum des Wissens sowie der Wissenschaften und deren Dekonstruktion Sie fokussieren auch wissenschaftskritisch philologisches materialbezogenes und subjektiv entwerfendes doing science Laura M Reiling zeigt im Anschluss an den spatial turn wie Universit tsr ume und Wissenspraktiken ber die sich die Romane intertextuell selbst konstituieren verschr nkt sind Auch im R ckgriff auf Archivalien des Deutschen Literaturarchivs Marbach wird das faktuale Fundament fiktionalen science writings pointiert Stirring the Head, Heart, and Soul H. Lynn Erickson, 2008 This book is a potent reminder of what it means when teachers teach whole human beings their minds hearts and souls Erickson helps us recall what all great teachers know quality teaching is about building young lives Carol Ann Tomlinson Professor University of Virginia Author The Parallel Curriculum Erickson sets the standard for concept based curriculum Her work offers a theoretically rich and eminently practical approach for constructing curriculum around rich transferable concepts The third edition extends this seminal work for the benefit of educators and their students Jay McTighe Educational Consultant McTighe and Associates Author Understanding by Design Help students analyze and synthesize information for a deeper understanding of big ideas This updated edition of the classic bestseller on curriculum design for quality instruction provides practical structures planning tools and specific classroom examples of effective teaching strategies. The author focuses on the

need for curriculum and instruction that allows students to move beyond factual learning to a level of understanding where knowledge transfers readily to new situations and thinking becomes integrated The book s wide ranging topics include Aligning local curriculum with state and national content standards Using brain based teaching methods Developing higher order thinking skills Assessing and reporting student progress Creating a lifelong love of learning in students This invaluable resource encourages teachers to create an educational environment that challenges students personal intellect engages their spirits and fosters a greater understanding of the world around them Abstraktion und Ausdruck Anja Pawel, 2019-11-05 Als der Tanz im fr hen 20 Jahrhundert zunehmend von modernen und au ereurop ischen Einfl ssen gepr gt wurde stellte dessen Darstellung bildende K nstlerInnen vor neue Herausforderungen Die intensive z T auch praktische Besch ftigung der bildenden K nste mit dem Tanz zeugt vom Nachvollzug der Entstehungs und Wahrnehmungsprozesse von Kunstwerken als zeitlich r umlich sowie sinnlich bedingte Entit ten Doch auch T nzer zeichneten und modellierten und fassten Bilder als Bindeglied zwischen Stillstand und Bewegung auf Die Studie untersucht die Interaktion beider Medien in dieser Zeit beleuchtet Unterschiede und fruchtbare Einfl sse und arbeitet die Wechselbeziehungen zwischen ihnen heraus Dabei steht insbesondere die Abstraktion als modernes Experimentierfeld im Mittelpunkt der Untersuchungen Bulletin of the Atomic Scientists, 1959-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world The New Werner Twentieth Century Edition of the Encyclopaedia Britannica ,1906 Form and Meaning in Avant-Garde Collage and Montage Magda Dragu, 2020-02-06 This book uses intermedial theories to study collage and montage tracing the transformation of visual collage into photomontage in the early avant garde period Magda Dragu distinguishes between the concepts of collage and montage as defined across several media fine arts literature music film photography based on the type of artistic meaning they generate rather than the mechanical procedures involved The book applies theories of intermediality to collage and montage which is crucial for understanding collage as a form of cultural production Throughout the author considers the political implications as collages and montages were often used for propagandistic purposes This book combines research methods used in several areas of inquiry art history literary criticism analytical philosophy musicology and aesthetics **Come Along** Jacinta Respondowska, 2008-11-10 Come Along is an attempt to respond to the contemporary crises in the world with the intention of discovering the path to peace and happiness which every human heart craves Since they are seen as a consequence of being true to our human nature answers to the perennial questions of philosophy are of paramount importance And since the latter are rooted in and stem from the heart of reality which from time immemorial has received irreconcilable interpretations inquiry into reality is the major undertaking of this volume Respondowska's study terminates in a system of thought By discovering the truth of reality as well as the answers to the perennial questions regarding one s life on the one hand and the

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