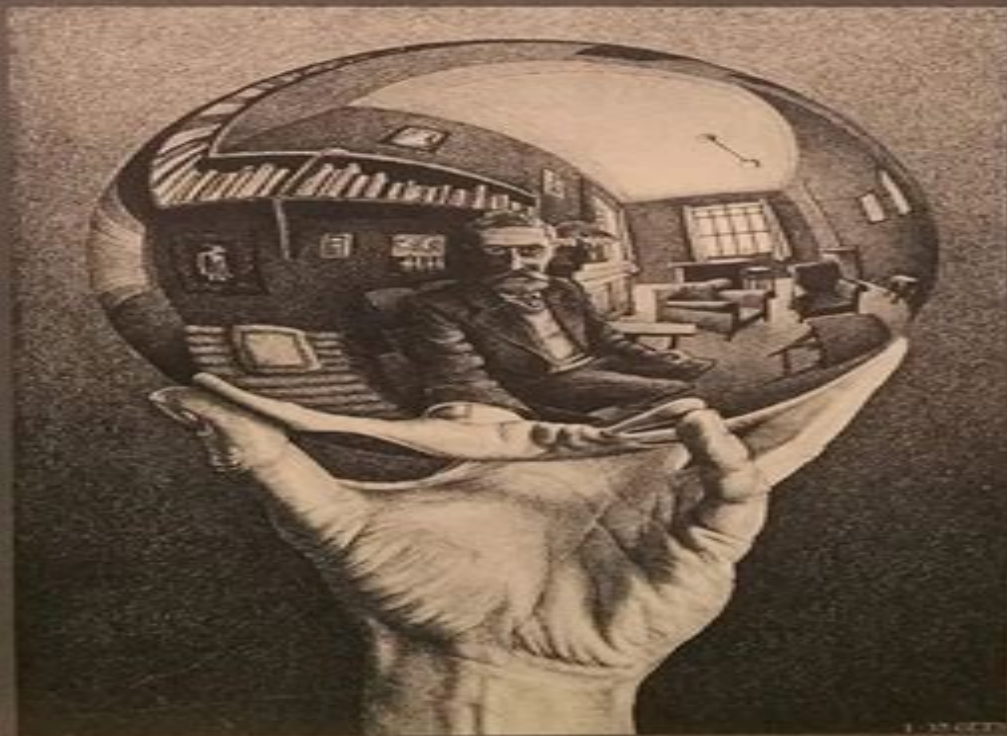


MATHEMATICAL VISIONS

THE PURSUIT
OF GEOMETRY
IN VICTORIAN
ENGLAND

J O A N L. R I C H A R D S



Mathematical Visions The Pursuit Of Geometry In Victorian England

Ralph MacPhail, Jr. (Editor)



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Mathematical Visions Joan L. Richards, 1988 Historians of science mathematicians and general readers will find this to be a carefully researched and nicely written account of what 19th century English mathematicians particularly the geometers imagined themselves to be doing of what they imagined to be the nature of mathematics The author Victorian Literature and the Physics of the Imponderable Sarah C Alexander, 2015-10-06 The Victorians were obsessed with the empirical but were frequently frustrated by the sizeable gaps in their understanding of the world around them This study examines how literature and popular culture adopted the emerging language of physics to explain the unknown or imponderable

Papers, Presentations and Patter: A Savoyards' Symposium Ralph MacPhail, Jr. (Editor), 2012-03-27 Papers presented at the International Gilbert Foreword by Rich Wiley Contents include Components of Gilbert s Genius by Harry Benford Was Gilbert a Little Liberal or a Little Conservative by Ian Bradley Gilbert s Girls by Elise Curran The Humor of the Operas by John E Dreslin Cheerful Facts about Matters Mathematical by Thomas Drucker Think British Sing Yiddish by Al Grand H M S Pinafore in American Waters by William Hyder The Principal Comic Roles by Sylvan H Kesilman The Reality of Iolanthe by Daniel Kravetz The Savoy Operas Viewed through an Aristotelian Lens by Shane K Magargal The Curious Case of Little Maid of Arcadee by Marc Shepherd The Writing and Composition of The Mountebanks by J Donald Smith Gilbert and Gender Parody in the Savoy Operas by Carolyn Williams *Robert Willis (1800-1875) and the Foundation of Architectural History* Alexandrina Buchanan, 2013 The first full scale biography of Robert Willis the founding father of architectural history

Handbook of Whiteheadian Process Thought Michel Weber, 2013-04-30 Gathering 115 entries written by 101 internationally renowned experts in their fields the Handbook of Whiteheadian Process Thought aims at canvassing the current state of knowledge in Whiteheadian scholarship and at identifying promising directions for future investigations through internal cross elucidation and external interdisciplinary development Two kinds of entries are weaved together in order to interpret Whitehead secundum Whitehead and to read him from the vantage point of interdisciplinary and crossdisciplinary research The thematic entries provide i a broad contextualisation of the issue at stake ii a focus on Whitehead s treatment if any or of a possible Whiteheadian treatment of the issue iii a history of relevant scholarship iv a personal assessment by the Author The biographical entries provide i a brief vita of the targeted thinker ii a sketch of his/her categories relevant to the Whiteheadian scholarship iii a personal assessment of the actual or possible Whiteheadian semantic transfer to or from the thinker Huxley's Church and Maxwell's Demon Matthew Stanley, 2014-11-24 During the Victorian period the practice of science shifted from a religious context to a naturalistic one It is generally assumed that this shift occurred because naturalistic science was distinct from and superior to theistic science Yet as Huxley s Church and Maxwell s Demon reveals most of the methodological values underlying scientific practice were virtually identical for the theists and the naturalists each agreed on the importance of the uniformity of natural laws the use of hypothesis and theory

the moral value of science and intellectual freedom But if scientific naturalism did not rise to dominance because of its methodological superiority then how did it triumph Matthew Stanley explores the overlap and shift between theistic and naturalistic science through a parallel study of two major scientific figures James Clerk Maxwell a devout Christian physicist and Thomas Henry Huxley the iconoclast biologist who coined the word agnostic Both were deeply engaged in the methodological institutional and political issues that were crucial to the theistic naturalistic transformation What Stanley's analysis of these figures reveals is that the scientific naturalists executed a number of strategies over a generation to gain control of the institutions of scientific education and to reimagine the history of their discipline Rather than a sudden revolution the similarity between theistic and naturalistic science allowed for a relatively smooth transition in practice from the old guard to the new

British Logic in the Nineteenth Century Dov M. Gabbay, John Woods, 2008-03-10 The present volume of the Handbook of the History of Logic is designed to establish 19th century Britain as a substantial force in logic developing new ideas some of which would be overtaken by and other that would anticipate the century's later capitulation to the mathematization of logic British Logic in the Nineteenth Century is indispensable reading and a definitive research resource for anyone with an interest in the history of logic Detailed and comprehensive chapters covering the entire range of modal logic Contains the latest scholarly discoveries and interpretative insights that answer many questions in the field of logic

Mathematics Unbound: The Evolution of an International Mathematical Research Community, 1800-1945 Karen Hunger Parshall, 2002 Although today's mathematical research community takes its international character very much for granted this global nature is relatively recent having evolved over a period of roughly 150 years from the beginning of the nineteenth century to the middle of the twentieth century During this time the practice of mathematics changed from being centered on a collection of disparate national communities to being characterized by an international group of scholars for whom the goal of mathematical research and cooperation transcended national boundaries Yet the development of an international community was far from smooth and involved obstacles such as war political upheaval and national rivalries Until now this evolution has been largely overlooked by historians and mathematicians alike This book addresses the issue by bringing together essays by twenty experts in the history of mathematics who have investigated the genesis of today's international mathematical community This includes not only developments within component national mathematical communities such as the growth of societies and journals but also more wide ranging political philosophical linguistic and pedagogical issues The resulting volume is essential reading for anyone interested in the history of modern mathematics It will be of interest to mathematicians historians of mathematics and historians of science in general

The Order of Forms Anna Kornbluh, 2019-11-20 In literary studies today debates about the purpose of literary criticism and about the place of formalism within it continue to simmer across periods and approaches Anna Kornbluh contributes to and substantially shifts that conversation in The Order of Forms by offering an exciting new category political formalism which she articulates

through the co emergence of aesthetic and mathematical formalisms in the nineteenth century Within this framework criticism can be understood as more affirmative and constructive articulating commitments to aesthetic expression and social collectivity Kornbluh offers a powerful argument that political formalism by valuing forms of sociability like the city and the state in and of themselves provides a better understanding of literary form and its political possibilities than approaches that view form as a constraint To make this argument she takes up the case of literary realism showing how novels by Dickens Bront Hardy and Carroll engage mathematical formalism as part of their political imagining Realism she shows is best understood as an exercise in social modeling more like formalist mathematics than social documentation By modeling society the realist novel focuses on what it considers the most elementary features of social relations and generates unique political insights Proposing both this new theory of realism and the idea of political formalism this inspired eye opening book will have far reaching implications in literary studies

Tools of American Mathematics Teaching, 1800-2000 Peggy Aldrich Kidwell, Amy Ackerberg-Hastings, David Lindsay Roberts, 2008-08-11 From the blackboard to the graphing calculator the tools developed to teach mathematics in America have a rich history shaped by educational reform technological innovation and spirited entrepreneurship In Tools of American Mathematics Teaching 1800 2000 Peggy Aldrich Kidwell Amy Ackerberg Hastings and David Lindsay Roberts present the first systematic historical study of the objects used in the American mathematics classroom They discuss broad tools of presentation and pedagogy not only blackboards and textbooks but early twentieth century standardized tests teaching machines and the overhead projector tools for calculation and tools for representation and measurement Engaging and accessible this volume tells the stories of how specific objects such as protractors geometric models slide rules electronic calculators and computers came to be used in classrooms and how some disappeared

The Sociology of Philosophies Randall Collins, 2009-07-01 Collins traces the movement of philosophical thought in ancient Greece China Japan India the medieval Islamic and Jewish world medieval Christendom and modern Europe He focuses on the social locations where sophisticated ideas are formed the patterns of intellectual networks and their inner divisions and conflicts

The History of Science Britannica Educational Publishing, 2014-01-01 Today we have countless scientific laws and principles that help explain our observations of the natural world However this was not always the case Although individuals have long sought to understand their surroundings it was not until around 2500 BCE that scientific activity began to assume a more prominent place in civilizations around the world The journey from early investigation through the scientific revolution to the present day is chronicled in this absorbing volume Readers will learn how religion helped fuel early studies in astronomy how Stonehenge is related to the Pythagorean theorem how the development of the scientific method affected the various branches of science the implications of the God particle and much more

Embracing Beauty John Heard, 2019-04-11 Traces the development of pure mathematics during the long nineteenth century in Britain with extensive references and primary sources

Measurement, Quantification and Economic Analysis

Ingrid H. Rima, 2002-09-11 Most economists assume that the mathematical and quantitative sides of their science are relatively recent developments. Measurement, Quantification and Economic Analysis shows that this is a misconception. Its authors argue that economists have long relied on measurement and quantification as essential tools. However, problems have arisen in adapting these tools from other fields. Ultimately, the authors are sceptical about the role which measurement and quantification tools now play in contemporary economic theory.

Karl Pearson Theodore M. Porter, 2010-01-02 Karl Pearson, founder of modern statistics, came to this field by way of passionate early studies of philosophy and cultural history as well as ether physics and graphical geometry. His faith in science grew out of a deeply moral quest reflected also in his socialism and his efforts to find a new basis for relations between men and women. This biography recounts Pearson's extraordinary intellectual adventure and sheds new light on the inner life of science. Theodore Porter's intensely personal portrait of Pearson extends from religious crisis and sexual tensions to metaphysical and even mathematical anxieties. Pearson sought to reconcile reason with enthusiasm and to achieve the impersonal perspective of science without sacrificing complex individuality. Even as he longed to experience nature directly and intimately, he identified science with renunciation and positivistic detachment. Porter finds a turning point in Pearson's career where his humanistic interests gave way to statistical ones in his *Grammar of Science* (1892) in which he attempted to establish scientific method as the moral educational basis for a refashioned culture. In this original and engaging book, a leading historian of modern science investigates the interior experience of one man's scientific life while placing it in a rich tapestry of social, political, and intellectual movements.

Before Einstein Elizabeth L. Throesch, 2017-01-02 *Before Einstein* brings together previous scholarship in the field of nineteenth-century literature and science and greatly expands upon it, offering the first book-length study of not only the scientific and cultural context of the spatial fourth dimension but also the literary value of four-dimensional theory. In addition to providing close critical analysis of Charles Howard Hinton's *Scientific Romances* (1884-1896), *Before Einstein* examines the work of H. G. Wells, Henry James, and William James through the lens of four-dimensional theory. The primary value of Hinton's work has always been its literary and philosophical content and influence rather than its scientific authority. It is certain that significant late nineteenth-century writers and thinkers such as H. G. Wells, William James, Olive Schreiner, Karl Pearson, and W. E. B. Du Bois read Hinton. Others including Henry James, Joseph Conrad, and Ford Madox Ford were familiar with his ideas. Hinton's fourth dimension appealed to scientists, spiritualists, and artists, and particularly at the end of the nineteenth century, the interests of these different groups often overlapped. Truly interdisciplinary in scope, *Before Einstein* breaks new ground by offering an extensive analysis of four-dimensional theory's place in the shared history of Modernism.

[Making a Social Body](#) Mary Poovey, 1995-11-15 With much recent work in Victorian studies focused on gender and class differences, the homogenizing features of 19th-century culture have received relatively little attention. In *Making a Social Body*, Mary Poovey examines one of the conditions that made the development of a mass culture in Victorian Britain possible: the representation

of the population as an aggregate a social body Drawing on both literature and social reform texts she analyzes the organization of knowledge during this period and explores its role in the emergence of the idea of the social body Poovey illuminates the ways literary genres such as the novel and innovations in social thought such as statistical thinking and anatomical realism helped separate social concerns from the political and economic domains She then discusses the influence of the social body concept on Victorian ideas about the role of the state examining writings by James Phillips Kay Thomas Chalmers and Edwin Chadwick on regulating the poor Analyzing the conflict between Kay s idea of the social body and Babbage s image of the social machine she considers the implications of both models for the place of Victorian women Poovey s provocative readings of Disraeli s *Coningsby* Gaskell s *Mary Barton* and Dickens s *Our Mutual Friend* show that the novel as a genre exposed the role gender played in contemporary discussions of poverty and wealth Making a Social Body argues that gender race and class should be considered in the context of broader concerns such as how social authority is distributed how institutions formalize knowledge and how truth is defined

[From Chemical Philosophy to Theoretical Chemistry](#) Mary Jo Nye,1994-03-01 How did chemistry and physics acquire their separate identities and are they on their way to losing them again Mary Jo Nye has written a graceful account of the historical demarcation of chemistry from physics and subsequent reconvergences of the two from Lavoisier and Dalton in the late eighteenth century to Robinson Ingold and Pauling in the mid twentieth century Using the notion of a disciplinary identity analogous to ethnic or national identity Nye develops a theory of the nature of disciplinary structure and change She discusses the distinctive character of chemical language and theories and the role of national styles and traditions in building a scientific discipline Anyone interested in the history of scientific thought will enjoy pondering with her the question of whether chemists of the mid twentieth century suspected chemical explanation had been reduced to physical laws just as Newtonian mechanical philosophers had envisioned in the eighteenth century

[The Emergence of the Fourth Dimension](#) Mark Blacklock,2018 This volume examines the emergence of the idea of the fourth dimension in fiction of the fin de siecle and how these new theories of the possibilities of time and space influenced writers such as Joseph Conrad Ford Madox Ford H G Wells Henry James H P Lovecraft and others

Science Serialized Geoffrey Cantor,Sally Shuttleworth,2004-03-12 Essays examining the ways in which the Victorian periodical press presented the scientific developments of the time to general and specialized audiences Nineteenth century Britain saw an explosion of periodical literature with the publication of over 100 000 different magazines and newspapers for a growing market of eager readers The Victorian periodical press became an important medium for the dissemination of scientific ideas Every major scientific advance in the nineteenth century was trumpeted and analyzed in periodicals ranging from intellectual quarterlies such as the *Edinburgh Review* to popular weeklies like the *Mirror of Literature* from religious periodicals such as the *Evangelical Magazine* to the atheistic *Oracle of Reason* Scientific articles appeared side by side with the latest fiction or political reporting while articles on nonscientific topics and serialized novels

invoked scientific theories or used analogies drawn from science The essays collected in *Science Serialized* examine the variety of ways in which the nineteenth century periodical press represented science to both general and specialized readerships They explore the role of scientific controversy in the press and the cultural politics of publication Subject range from the presentation of botany in women s magazines to the highly public dispute between Darwin and Samuel Butler and from discussions of the mind body problem to those of energy physics Contributors include leading scholars in the fields of history of science and literature Ann B Shteir Jonathan Topham Frank A J L James Roger Smith Graeme Gooday Crosbie Smith Ian Higginson Gillian Beer Bernard Lightman Helen Small Gowan Dawson Jonathan Smith James G Paradis and Harriet Ritvo

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