

# Experimental and computational mathematics: Selected writings

Jonathan Borwein  
and  
Peter Borwein

WILEY

# Experimental And Computational Mathematics Selected Writings

**Hongru Du**



## **Experimental And Computational Mathematics Selected Writings:**

**Experimental and Computational Mathematics** Jonathan M. Borwein, 2010 A quiet revolution in mathematical computing and scientific visualization took place in the latter half of the 20th century These developments have dramatically enhanced modes of mathematical insight and opportunities for exploratory computational experimentation This volume collects the experimental and computational contributions of Jonathan and Peter Borwein over the past quarter century

**From Analysis to Visualization** David H. Bailey, Naomi Simone Borwein, Richard P. Brent, Regina S. Burachik, Judy-anne Heather Osborn, Brailey Sims, Qiji J. Zhu, 2020-03-16 Students and researchers from all fields of mathematics are invited to read and treasure this special Proceedings A conference was held 25-29 September 2017 at Noah's On the Beach Newcastle Australia to commemorate the life and work of Jonathan M Borwein a mathematician extraordinaire whose untimely passing in August 2016 was a sorry loss to mathematics and to so many members of its community a loss that continues to be keenly felt A polymath Jonathan Borwein ranks among the most wide ranging and influential mathematicians of the last 50 years making significant contributions to an exceptional diversity of areas and substantially expanding the use of the computer as a tool of the research mathematician The contributions in this commemorative volume probe Dr Borwein's ongoing legacy in areas where he did some of his most outstanding work Applied Analysis Optimization and Convex Functions Mathematics Education Financial Mathematics plus Number Theory Special Functions and Pi all tinged by the double prisms of Experimental Mathematics and Visualization methodologies he championed

**Models and Methods in the Philosophy of Science: Selected Essays** Patrick Suppes, 2013-03-14 The thirty one papers collected in this volume represent most of the articles that I have published in the philosophy of science and related foundational areas of science since 1970 The present volume is a natural successor to Studies in the Methodology and Foundations of Science a collection of my articles published in 1969 by Reidel now a part of Kluwer The articles are arranged under five main headings Part I contains six articles on general methodology The topics range from formal methods to the plurality of science Part II contains six articles on causality and explanation The emphasis is almost entirely on probabilistic approaches Part III contains six articles on probability and measurement The importance of representation theorems for both probability and measurement is stressed Part IV contains five articles on the foundations of physics The first three articles are concerned with action at a distance and space and time the last two with quantum mechanics Part V contains eight articles on the foundations of psychology This is the longest part and the articles reflect my continuing strong interest in the nature of learning and perception Within each part the articles are arranged chronologically I turn now to a more detailed overview of the content The first article of Part I concerns the role of formal methods in the philosophy of science Here I discuss what is the new role for formal methods now that the imperialism of logical positivism has disappeared

[Resources in Education](#) , 1988

**On the Foundations of Computing** Giuseppe Primiero, 2020 On The Foundations of Computing is a technical historical and conceptual investigation

in the three main methodological approaches to the computational sciences mathematical engineering and experimental The first part of the volume explores the background behind the formal understanding of computing originating at the end of the XIX century and it investigates the formal origins and conceptual development of the notions of computation algorithm and program The second part of the volume overviews the construction of physical devices to perform automated tasks and it considers associated technical and conceptual issues We start from the design and construction of the first generation of computing machines explore their evolution and progress in engineering for both hardware and software and investigate their theoretical and conceptual problems The third part of the volume analyses the methods and principles of experimental sciences founded on computational methods We study the use of machines to perform scientific tasks with particular reference to computer models and simulations Each part aims at defining a notion of computational validity according to the corresponding methodological approach

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