

1 Mathematics Paper 2 Memorandum Thutong

In real-world problems related to finance, business, and management, mathematicians and economists frequently encounter optimization problems. In this classic book, George Dantzig looks at a wealth of examples and develops linear programming methods for their solutions. He begins by introducing the basic theory of linear inequalities and describes the powerful simplex method used to solve them. Treatments of the price concept, the transportation problem, and matrix methods are also given, and key mathematical concepts such as the properties of convex sets and linear vector spaces are covered. George Dantzig is properly acclaimed as the "father of linear programming." Linear programming is a mathematical technique used to optimize a situation. It can be used to minimize traffic congestion or to maximize the scheduling of airline flights. He formulated its basic theoretical model and discovered its underlying computational algorithm, the "simplex method," in a pathbreaking memorandum published by the United States Air Force in early 1948. *Linear Programming and Extensions* provides an extraordinary account of the subsequent development of his subject, including research in mathematical theory, computation, economic analysis, and applications to industrial problems. Dantzig first achieved success as a statistics graduate student at the University of California, Berkeley. One day he arrived for a class after it had begun, and assumed the two

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problems on the board were assigned for homework. When he handed in the solutions, he apologized to his professor, Jerzy Neyman, for their being late but explained that he had found the problems harder than usual. About six weeks later, Neyman excitedly told Dantzig, "I've just written an introduction to one of your papers. Read it so I can send it out right away for publication." Dantzig had no idea what he was talking about. He later learned that the "homework" problems had in fact been two famous unsolved problems in statistics.

Based on the 1987 International Commission on Mathematical Instruction conference, this volume comprises key papers on the role of mathematics in applied subjects.

The author puts this book in the best possible context by referring to the "magisterial and paradoxical Dr. Schumpeter." A figure in a rare class with John Maynard Keynes, Friedrich von Hayek, and Alfred Marshall, the work of Joseph Schumpeter is equalled only in monumental significance by his personal trials and tribulations. The work is divided into two volumes - the first covering his career in Europe and the second his life and achievements in America. Walt Rostow, in his Foreword, sums up Robert Loring Allen's achievement in biography and intellectual history thus: "In dealing with Schumpeter's life, Allen exhibits a rare consciousness of the extraordinary complexity and only limited penetrability of the human personality Schumpeter's closely interwoven personal and professional life unfolds, Allen develops without dogmatism a pattern of linkages

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for the reader to contemplate. In a splendid final passage, he provides a memorable summation." What makes this enormous effort so successful is the linkage of the personal and the professional, the biographical with the intellectual. Indeed, it is Schumpeter's single-minded determination to explain within a single, formal theory, the dynamics of capitalism that bridges the gap in space, time, and personality. To his books "The Theory of Economic Development, "and "Capitalism, Socialism and Democracy, "both published by Transaction, is now added the specific contexts in which these and his other works were written. The author of this biography, like the subject himself, is a masterful student of the craft of economics, and its place within the larger social science contexts that Schumpeter worked. In this work, we are introduced into the main current of European and American social science alike. The title of the book, "Opening Doors, "derives from Schumpeter's life long aim to appeal to inquiring minds to move through such doors in an effort to create the social science of the future. In this, the volume succeeds admirably.

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One of the pervasive phenomena in the history of science is the development of independent

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disciplines from the solution or attempted solutions of problems in other areas of science. In the Twentieth Century, the creation of specialties within the sciences has accelerated to the point where a large number of scientists in any major branch of science cannot understand the work of a colleague in another subdiscipline of his own science. Despite this fragmentation, the development of techniques or solutions of problems in one area very often contribute fundamentally to solutions of problems in a seemingly unrelated field. Therefore, an examination of this phenomenon of the formation of independent disciplines within the sciences would contribute to the understanding of their evolution in modern times. We believe that in this context the history of combinatorial group theory in the late Nineteenth Century and the Twentieth Century can be used effectively as a case study. It is a reasonably well-defined independent specialty, and yet it is closely related to other mathematical disciplines. The fact that combinatorial group theory has, so far, not been influenced by the practical needs of science and technology makes it possible for us to use combinatorial group theory to exhibit the role of the intellectual aspects of the development of mathematics in a clearcut manner. There are other features of combinatorial group theory which appear to make it a reasonable choice as the object of a historical study.

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The chapters of this Handbook volume cover nine main topics that are representative of recent theoretical and algorithmic developments in the field. In addition to the nine papers that present the state of the art, there is an article on the early history of the field. The handbook will be a useful reference to experts in the field as well as students and others who want to learn about discrete optimization.

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Equivalence: Elizabeth L. Scott at Berkeley is the compelling story of one pioneering statistician's relentless twenty-year effort to promote the status of women in academe and science. Part biography and part microhistory, the book provides the context and background to understand Scott's masterfulness at using statistics to help solve societal problems. In addition to being one of the first researchers to work at the interface of astronomy and statistics and an early practitioner of statistics using high-speed computers, Scott worked on an impressively broad range of questions in science, from whether cloud seeding actually works to whether ozone depletion causes skin cancer. Later in her career, Scott became swept up in the academic women's movement. She used her well-developed scientific research skills together with the advocacy skills she had honed, in such activities as raising funds for Martin Luther King Jr. and keeping Free Speech Movement students out of jail, toward policy making that would improve the condition of the academic workforce for women. The book invites the reader into Scott's universe, a window of inspiration made possible by the fact that she saved and dated every piece of paper that came across her desk.

