Mathematical Models of Group Structure

Mayer, Thomas

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Mathematical Models Of Group Structure:

Mathematical Models of Group Structure Thomas F. Mayer,1975   **A Theory of Group Structures** Kenneth Mackenzie,2022-07-30 First published in 1976 this A Theory of Group Structures is a study of the aggregation of individuals into groups which cuts across many different social sciences Volume one attempts to formulate a more rigorous theory of group structures by providing consistent definitions assumptions measures methodology theory and results Volume two examines a sequence of twelve experiments and reports empirical tests of the theory presented in volume one The result is a major revision of existing research into problems of group structure and a case study in paradigm development This book will be of interest to students of all social sciences   **A Theory of Group Structures** Kenneth D. Mackenzie,2018-10-24 First published in 1976 this A Theory of Group Structures is a study of the aggregation of individuals into groups which cuts across many different social sciences Volume two examines a sequence of twelve experiments and reports empirical tests of the theory presented in volume one The result is a major revision of existing research into problems of group structure and a case study in paradigm development This book will be of interest to students of all social sciences   **Mathematical Structures and Mathematical Modelling** Isaak Moiseevich I͡Aglom,1986 A substantial amount of this book is devoted to general questions including significant material from the history of science allowing one to follow the formation of modern attitudes on the essence of mathematics and the methods of its applications only chapters 5 and 6 are devoted to a survey of the basic algebraic structures and a more detailed analysis of a structure associated with some geometric considerations are of a more concrete character   Group Structure Motivation and Group Performance Mauk Mulder,2020-05-18 No detailed description available for Group Structure Motivation and Group Performance   **Air Force Research Resumés** ,

Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and

constructions The second kind of article of medium length contains more detailed concrete problems results and techniques **Mathematical Modelling** Murray S. Klamkin,1987-01-01 Designed for classroom use this book contains short self contained mathematical models of problems in the physical mathematical and biological sciences first published in the Classroom Notes section of the SIAM Review from 1975 1985 The problems provide an ideal way to make complex subject matter more accessible to the student through the use of concrete applications Each section has extensive supplementary references provided by the editor from his years of experience with mathematical modelling *Researching Mathematical Modelling Education in Disruptive Times* Hans-Stefan Siller,Vince Geiger,Gabriele Kaiser,2024-06-03 This edited volume documents research on mathematical modelling education before during and after the Covid 19 pandemic Mathematical modelling is essential for understanding natural and human generated phenomena and informs decision making about events such as the pandemic climate change and other disruptive events Communication to the public often by the media makes use of mathematical modelling to justify changes to public policy as seen during the COVID 19 crisis Consequently mathematical modelling has assumed an increasingly prominent role in curricula internationally providing opportunities to understand how it is used in current circumstances and to plan for the needs of future societies This book focuses on research on mathematical modelling education and its implementation at school and tertiary level Contributions to the book and point to directions for further innovation in mathematical modelling education Authors of this volume are members of the International Community of Teachers of Mathematical Modelling the peak research body for the teaching and learning of mathematical modelling **Social Networks** John Scott,2002 This collection brings together the principal sources in the development of the techniques of social network analysis from early metaphorical statements in Simmel and Radcliffe Brown through the more systematic explorations in sociology and social anthropology to contemporary formalizations A new introduction explores the history of Social Networks and highlights the arguments of those who treat social network analysis as a loose qualitative approach as well as those who see its potential in technical mathematical uses The thematically organized coverage includes Part I Conceptualizing Social Networks Part II Topics and Developments in Graph Theory Part III Further Mathematical Models for Networks Part IV Applications Family and Community Part V Applications Corporate Power and Economic Structures Part VI Applications Political Protest and Policy Networks Part VII Applications Knowledge Reputation and Diffusion **The Topos of Music III: Gestures** Guerino Mazzola,René Guitart,Jocelyn Ho,Alex Lubet,Maria Mannone,Matt Rahaim,Florian Thalmann,2018-03-28 This is the third volume of the second edition of the now classic book The Topos of Music The authors present gesture theory including a gesture philosophy for music the mathematics of gestures concept architectures and software for musical gesture theory the multiverse perspective which reveals the relationship between gesture theory and the string theory in theoretical physics and applications of gesture theory to a number of musical themes including counterpoint modulation theory free jazz Hindustani music and vocal gestures **Scientific and**

Technical Aerospace Reports ,1986   Structure and Dynamics of Asymmetric Interactions Naohito Chino,2025-01-03 This book integrates the fundamentals of asymmetric multidimensional scaling spectral graph theory graph embedding theory and various dynamical systems theories that deal with the static and dynamic aspects of asymmetric phenomena In this way it provides a comprehensive introduction to theories and methods for analyzing phenomena observed universally in social behavioral economical geographical biological neural chemical reaction and other networks The topics addressed in here include the notions of asymmetric similarity matrices graph spectra dimension reduction and difference and differential equations to describe the dynamics of networks bifurcation of vector fields Mandelbrot sets fractals and chaos and Hilbert spaces Illustrated by carefully chosen examples and supported by extensive simulation studies the book is highly recommended to readers who seek to discover static asymmetric structures among members or nodes It also appeals to those who want to understand the kinds of dynamics that are theoretically possible in their research domains   **Mathematics of Complexity and Dynamical Systems** Robert A. Meyers,2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers   **The Spread of Infectious Disease on Network Using Neutrosophic Algebraic Structure** A. Zubairu,A. A. Ibrahim, Network theory and its associated techniques has tremendous impact in various discipline and research from computer engineering architecture humanities social science to system biology   *Handbook of Mathematics* Vialar Thierry,2023-08-22 The book revised consists of XI Parts and 28 Chapters covering all areas of mathematics It is a tool for students scientists engineers students of many disciplines teachers professionals writers and also for a general reader with an interest in mathematics and in science It provides a wide range of mathematical concepts definitions propositions theorems proofs examples and numerous illustrations The difficulty level can vary depending on chapters and sustained attention will be required for some The structure and list of Parts are quite classical I Foundations of Mathematics II Algebra III Number Theory IV Geometry V Analytic Geometry VI Topology VII Algebraic Topology VIII Analysis IX Category Theory X Probability and Statistics XI Applied Mathematics Appendices provide useful lists of symbols and tables for ready reference Extensive cross references

allow readers to find related terms concepts and items by page number heading and objet such as theorem definition example etc The publisher s hope is that this book slightly revised and in a convenient format will serve the needs of readers be it for study teaching exploration work or research **Perspectives on Social Psychology** Clyde Hendrick,2015-06-19 Originally published in 1977 this volume was intended to provide a relatively elementary and clear overview of some of the more important approaches to social psychology at the time There are a number of perspectives on this discipline but here instead of traditional theoretical approaches e g field theory role theory or S R the point of view is from the general perspective The first chapter approaches social psychology as an experimental science with the history and philosophic traditions discussed as well as the current state of the field Other chapters approach the discipline from the perspectives of symbolic interaction social development and ethology The final chapter is devoted to the uses of mathematical models in social psychology This volume was intended to serve as a helpful integration of the field and will still be useful as a text in its historical context *Psychology Library Editions: Social Psychology* Various,2021-07-09 Psychology Library Editions Social Psychology 30 volume set brings together an eclectic mix of titles from a wealth of authors with diverse backgrounds seeking to understand human behaviour and interaction from a socio psychological perspective The series of previously out of print titles originally published between 1908 and 1993 includes those from some authors considered to be founders of social psychology and traces the development of the subject from its early foundations **The Mathematical Structure of Stable Physical Systems** Dr. Martin Concoyle & G.P. Coatmundi,2014 This book is an introduction to the simple math patterns used to describe fundamental stable spectral orbital physical systems represented as discrete hyperbolic shapes the containment set has many dimensions and these dimensions possess macroscopic geometric properties which are also discrete hyperbolic shapes Thus it is a description which transcends the idea of materialism ie it is higher dimensional and it can also be used to model a life form as a unified high dimension geometric construct which generates its own energy and which has a natural structure for memory where this construct is made in relation to the main property of the description being in fact the spectral properties of both material systems and of the metric spaces which contain the material systems where material is simply a lower dimension metric space and where both material components and metric spaces are in resonance with the containing space Partial differential equations are defined on the many metric spaces of this description but their main function is to act on either the usually unimportant free material components to most often cause non linear dynamics or to perturb the orbits of the quite often condensed material trapped by or within the stable orbits of a very stable hyperbolic metric space shape **Statistical Network Analysis: Models, Issues, and New Directions** Edoardo M. Airoldi,David M. Blei,Stephen E. Fienberg,Anna Goldenberg,Eric P. Xing,Alice X. Zheng,2008-04-12 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Statistical Network Analysis Models Issues and New Directions held in Pittsburgh PA USA in June 2006 as associated event of the 23rd International Conference on Machine

Learning ICML 2006 It covers probabilistic methods for network analysis paying special attention to model design and computational issues of learning and inference

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Table of Contents Mathematical Models Of Group Structure

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