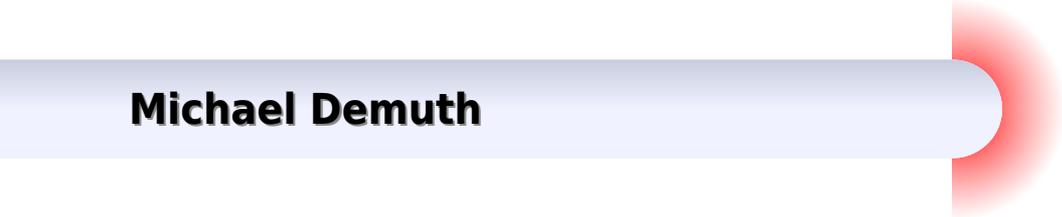


Ioannis Antoniou and
Günter Lerner (eds.)

Generalized functions, operator theory, and dynamical systems

Generalized Functions Operator Theory And Dynamical Systems

Michael Demuth



Generalized Functions Operator Theory And Dynamical Systems:

Generalized Functions, Operator Theory, and Dynamical Systems Ioannis Antoniou, Gunter Lumer, 2021-02-25
Nobel prize winner Ilya Prigogine writes in his preface Irreversibility is a challenge to mathematics which leads to generalized functions and to an extension of spectral analysis beyond the conventional Hilbert space theory Meeting this challenge required new mathematical formulations obstacles met and largely overcome thanks primarily to the contributors to this volume This compilation of works grew out of material presented at the Hyperfunctions Operator Theory and Dynamical Systems symposium at the International Solvay Institutes for Physics and Chemistry in 1997 The result is a coherently organized collective work that moves from general widely applicable mathematical methods to ever more specialized physical applications Presented in two sections part one describes Generalized Functions and Operator Theory part two addresses Operator Theory and Dynamical Systems The interplay between mathematics and physics is now more necessary than ever and more difficult than ever given the increasing complexity of theories and methods

Generalized Functions, Operator Theory and Dynamical Systems Ioannis Antoniou, Gunter Lumer, 1998-09-01 Linear Theory of Colombeau Generalized Functions M Nedeljkov, S Pilipovic, D Scarpalezos, 1998-05-20 Results from the now classical distribution theory involving convolution and Fourier transformation are extended to cater for Colombeau s generalized functions Indications are given how these particular generalized functions can be used to investigate linear equations and pseudo differential operators Furthermore applications are also given to problems with nonregular data

Mathematical Reviews ,2002 **Physics Letters** ,1999 General physics atomic physics molecular physics and solid state physics *Journal of Physics A* ,2002 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory

Universal Decimal Classification: Systematic tables British Standards Institution, 1985 Evolution Equations, Feshbach Resonances, Singular Hodge Theory Michael Demuth, 1999-04-22 Evolution equations describe many processes in science and engineering and they form a central topic in mathematics The first three contributions to this volume address parabolic evolutionary problems The opening paper treats asymptotic solutions to singular parabolic problems with distribution and hyperfunction data The theory of the asymptotic Laplace transform is developed in the second paper and is applied to semigroups generated by operators with large growth of the resolvent An article follows on solutions by local operator methods of time dependent singular problems in non cylindrical domains The next contribution addresses spectral properties of systems of pseudodifferential operators when the characteristic variety has a conical intersection Bohr Sommerfeld quantization rules and first order exponential asymptotics of the resonance widths are established under various semiclassical regimes In the following article the limiting absorption principle is proven for certain self adjoint operators Applications include Hamiltonians with magnetic fields Dirac

Hamiltonians and the propagation of waves in inhomogeneous media The final topic develops Hodge theory on manifolds with edges its authors introduce a concept of elliptic complexes prove a Hodge decomposition theorem and study the asymptotics of harmonic forms **Special Volume in Memory of Ilya Prigogine** Stuart Alan Rice,2007

Irreversibility and Causality Heinz-Dietrich Doebner,Piotr Kielanowski,1998-05-05 A Selection of Articles Presented at the 21st International Colloquium on Group Theoretical Methods in Physics ICGTMP at Goslar Germany July 16 21 1996

Generalized Functions: Theory of differential equations, by I. M. Gel'fand and G. E. Shilov Izrail' Moiseevich Gel'fand,1964 *New Research in Quantum Physics* Volodymyr Krasnoholovets, Frank H. Columbus,2004 This outstanding new volume brings together state of the art developments in quantum physics The forefront of contemporary advances in physics lies in the submicroscopic regime whether it be in atomic nuclear condensed matter plasma or particle physics or in quantum optics or even in the study of stellar structure All are based upon quantum theory i e quantum mechanics and quantum field theory and relativity which together form the theoretical foundations of modern physics a range of possible values are in quantum theory constrained to have discontinuous or discrete values The intrinsically deterministic character of classical physics is replaced in quantum theory by intrinsic uncertainty According to quantum theory electromagnetic radiation does not always consist of continuous waves instead it must be viewed under some circumstances as a collection of particle like photons the energy and momentum of each being directly proportional to its frequency or inversely proportional to its wavelength the photons still possessing some wavelike characteristics Classical Concepts Millard Baublitz JR Boston University Irreversible Time Flow and Hilbert Space Structure Pavel Kundrat Milos V Lokajicek Institute of Physics AVCR Czech Republic Time as a Dynamical Variable Z Y Wang University of Electronic Science and Technology of China and B Chen University of Central Florida Gamow Vectors and Time Asymmetric Quantum Mechanics M Gadella Universidad de Valladolid Spain and S Wickramasekara St Olaf College Nonperturbative Methods in Quantum Mechanics The Gaussian Functional Approach J Casahorran Universidad de Zaragoza Spain Wave Packet Dynamics and Tunneling in External Time Dependent Fields A Semiclassical Real Time Approach Markus Saltzer and Joachim Ankerhold Albert Ludwigs Universitaet Freiburg Germany Finite Size Scaling in Quantum Mechanics Sabre Kais Purdue University and Pablo Serra Universidad Nacional de Cordoba Argentina Nonlocality in Time of Interaction in Theories with Disparate Energy Scales Renat Kh Gainutdinov and Aigul A Mutygullina Kazan State University Russia Classical and Quantum Mechanics of A *Russian Mathematical Surveys* ,1960 *Panamerican Mathematical Journal* ,2001 **American Book Publishing Record** ,2003 *U.S. Government Research & Development Reports* ,1967 *Dynamical Systems and Bifurcation Theory* M. I. Camacho,M. J. Pacifico,Floris Takens,1987 **Bulletin** ,1911 *Dynamical Systems and Bifurcation Theory* M. I. Camacho,M. J. Pacifico,Floris Takens,1987 **Reviews in Operator Theory, 1980-86** Paul Richard Halmos,1989

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