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Nonlinear Diffusion Equations and Their Equilibrium States II

Proceedings of a Microprogram held August 25–September 12, 1986

Springer Science & Business Media In recent years considerable interest has been focused on nonlinear diffu sion problems, the archetypical equation for these being Ut = ~U + f(u). Here ~ denotes the n-dimensional Laplacian, the solution u = u(x, t) is defined over some space-time domain of the form n x [O,T], and f(u) is a given real function whose form is determined by various physical and mathematical applications. These applications have become more varied and widespread as problem after problem has been shown to lead to an equation of this type or to its time-independent counterpart, the elliptic equation of equilibrium ~u+f(u)=O. Particular cases arise, for example, in population genetics, the physics of nu clear stability, phase transitions between liquids and gases, flows in porous media, the Lend-Emden equation of astrophysics, various simplified com bustion models, and in determining metrics which realize given scalar or Gaussian curvatures. In the latter direction, for example, the problem of finding conformal metrics with prescribed curvature leads to a ground state problem involving critical exponents. Thus not only analysts, but geome ters as well, can find common ground in the present work. The corresponding mathematical problem is to determine how the struc ture of the nonlinear function f(u) influences the behavior of the solution.

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Nonlinear Diffusion Equations and Their Equilibrium States

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The Mountain Pass Theorem

Variants, Generalizations and Some Applications

Cambridge University Press This 2003 book presents min-max methods through a study of the different faces of the celebrated Mountain Pass Theorem (MPT) of Ambrosetti and Rabinowitz. The reader is led from the most accessible results to the forefront of the theory, and at each step in this walk between the hills, the author presents the extensions and variants of the MPT in a complete and unified way. Coverage includes standard topics, but it also covers other topics covered nowhere else in book form: the non-smooth MPT; the geometrically constrained MPT; numerical approaches to the MPT; and even more exotic variants. Each chapter has a section with supplementary comments and bibliographical notes, and there is a rich bibliography and a detailed index to aid the reader. The book is suitable for researchers and graduate students. Nevertheless, the style and the choice of the material make it accessible to all newcomers to the field.

Differential and Integral Equations

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International Mathematical News

Nouvelles Mathématiques Internationales; Internationale Mathematische Nachrichten

Issues for Dec. 1952- include section: Nachrichten der Österreichischen Mathematischen Gesellschaft.

American Book Publishing Record

BPR annual cumulative

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Neuerscheinungen des Buchhandels

Verzeichnis lieferbarer Bücher

Euro-Par 2022: Parallel Processing

28th International Conference on Parallel and Distributed Computing, Glasgow, UK, August 22–26, 2022, Proceedings

Springer Nature This book constitutes the proceedings of the 33rd International Conference on Parallel and Distributed Computing, Euro-Par 2022, held in GLasgow, UK, in August 2022. The 25 full papers presented in this volume were carefully reviewed and selected from 102 submissions. The conference Euro-Par 2022 covers all aspects of parallel and distributed computing, ranging from theory to practice, scaling from the smallest to the largest parallel and distributed systems, from fundamental computational problems and models to full-fledged applications, from architecture and interface design and implementation to tools, infrastructures and applications.

Proceedings of the 1981 International Conference on Parallel Processing

Papers Presented on August 25-28, 1981

Euro-Par 2020: Parallel Processing

26th International Conference on Parallel and Distributed Computing, Warsaw, Poland, August 24–28, 2020, Proceedings

Springer Nature This book constitutes the proceedings of the 26th International Conference on Parallel and Distributed Computing, Euro-Par 2020, held in Warsaw, Poland, in August 2020. The conference was held virtually due to the coronavirus pandemic. The 39 full papers presented in this volume were carefully reviewed and selected from 158 submissions. They deal with parallel and distributed computing in general, focusing on support tools and environments; performance and power modeling, prediction and evaluation; scheduling and load balancing; high performance architectures and compilers; data management, analytics and machine learning; cluster, cloud and edge computing; theory and algorithms for parallel and distributed processing; parallel and distributed programming, interfaces, and languages; multicore and manycore parallelism; parallel numerical methods and applications; and accelerator computing.

Government Reports Annual Index

Fundamentals of Computation Theory

International Conference FCT '89, Szeged, Hungary, August 21-25, 1989. Proceedings

Springer This volume contains the proceedings of the conference on Fundamentals of Computation Theory held in Szeged, Hungary, August 21-25, 1989. The conference is the seventh in the series of the FCT conferences initiated in 1977 in Poznan-Kornik, Poland. The papers collected in this volume are the texts of invited contributions and shorter communications falling into one of the following sections: - Efficient Computation by Abstract Devices: Automata, Computability, Probabilistic Computations, Parallel and Distributed Computing; - Logics and Meanings of Programs: Algebraic and Categorical Approaches to Semantics, Computational Logic, Logic Programming, Verification, Program Transformations, Functional Programming; - Formal Languages: Rewriting Systems, Algebraic Language Theory; - Computational Complexity: Analysis and Complexity of Algorithms, Design of Efficient Algorithms, Algorithms and Data Structures, Computational Geometry, Complexity Classes and Hierarchies, Lower Bounds.

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Very Large Data Bases

Proceedings, Third International Conference on Very Large Data Bases, Tokyo, Japan, October 6-8, 1977

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Dedham, MA : Artech House

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Proceedings of the National Electronics Conference

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