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hyperbolic 3-space; it can also be regarded as a subgroup of the group of Möbius transformations in the complex plane. The study of Kleinian groups has become an active area in mathematics and deals with many interesting theories. This book provides fundamental results and important theorems which are needed for access to the frontiers of the theory from a modern point of view.

Equations différentielles ordinaires

V.K. DZYADYK. — **Approximation methods for solutions of differential and integral equations.** — Un vol. relié, 16,5×24,5, de 325 p. — ISBN 90-6764-194-4. — Prix: DM 259.00. — VSP, Utrecht, 1995.

This book is the result of 20 years of investigations, in order to bring closer and synthesize a number of well-known results, ideas and methods from the theory of function approximation, theory of differential and integral equations and numerical analysis. The book opens with an introduction on the theory of function approximation and is followed by a new approach to the Fredholm integral equations of the second kind. Several chapters are devoted to the construction of new methods for the effective approximation of solutions of several important integral, and ordinary and partial differential equations. In addition, new general results on the theory of linear differential equations with one regular singular point, as well as applications of the various new methods are discussed.

V. LAKSHMIKANTHAM, A.S. VATSALA. — **Generalized quasilinearization for nonlinear problems.** — Mathematics and its applications, vol. 440 — Un vol. relié, 16,5×24,5, de ix, 276 p. — ISBN 0-7923-5038-3. — Prix: Dfl. 260.00. — Kluwer Academic Publishers, Dordrecht, 1998.

The book provides a systematic development of the generalized quasilinearization indicating the notions and technical difficulties that are encountered in the unified approach. It enhances considerably the usefulness of the method of quasilinearization which has proved to be very effective in several areas of investigation and in applications. Further it includes the well known monotone iterative technique as a special case.

Equations aux dérivées partielles

A. ASANOV and E.R. ATAMANOV. — **Nonclassical and inverse problems for pseudoparabolic equations.** — Inverse and ill-posed problems series. — Un vol. relié, 16,5×24, de 152 p. — ISBN 90-6764-235-5. — Prix: DM 150.00. — VSP, Utrecht, 1997.

The problems considered in this book are related to the theory of differential equations with partial derivatives from the ill-posed problem theory and are generally ill-posed in the Hadamard sense. The basic topic discussed is the conditional well-posedness of such problems. This represents the proof of uniqueness and stability theorems in the appropriate classes of functions. In some cases, existence theorems are also considered. The book opens with a chapter on the Cauchy problem with data in a time-like manifold for pseudoparabolic equations. Chapter 2 deals with interior problems for pseudoparabolic equations and the last chapter deals with inverse problems for operator pseudoparabolic equations.

E. BAINOV, V. COVACHEV, (Editors). — **Proceedings of the fifth International Colloquium on Differential Equations: Plovdiv, Bulgaria, 18-23 August, 1994.** — Un vol. relié, 16,5×24,5, de vii, 362 p. — ISBN 90-6764-192-8. — Prix: DM 210.00. — VSP, Utrecht, 1995.

The colloquium was organized by UNESCO and the Plovdiv Technical University, with the help of many international mathematical organizations. This proceedings volume contains