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mathematics, hypergroups, homogeneous spaces, Lie superalgebras, the theory of representations and applications to differential equations and integrable systems. Among the topics that are treated are quantization of Poisson structures, applications of multivalued groups, noncommutative aspects of hypergroups, homology invariants of homogeneous spaces, generalisations of the Godbillon-Vey invariant, relations between classical problems of linear analysis and representation theory and the geometry of current groups.

Fonctions de variables réelles

G.V. MILOVANOVIC, (Editor). — **Recent progress in inequalities.** — Mathematics and its applications, vol. 430. — Un vol. relié, 16×25, de XII, 519 p. — ISBN 0-7923-4845-1. — Prix: Dfl. 395.00. — Kluwer Academic Publishers, Dordrecht, 1998.

This volume provides an extensive survey of the most current topics in almost all subjects in the field of inequalities, written by 85 scientists from twenty countries. Some of the papers were presented at the International Memorial Conference dedicated to Professor D.S. Mitrinović, which was held at the University of Niš, June 20-22, 1996. Inequalities are to be found everywhere and play an important and significant role in almost all subjects of mathematics.

Mesure et intégration

Wolfgang TOMÉ. — **Path integrals on group manifolds: the representation independent propagator for general Lie groups.** — Un vol. relié, 16×23, de XVIII, 213 p. — ISBN 981-02-3355-8. — Prix: £22.00. — World Scientific, Singapore, 1998.

It is shown in this work that it is possible to introduce a *representation independent propagator* for a real, separable, connected and simply connected Lie group with irreducible, square integrable representations. For a given set of kinematical variables this propagator is a single generalized function independent of any particular choice of fiducial vector and the irreducible representations of the Lie group generated by these kinematical variables, which nonetheless, correctly propagates each element of a continuous representation based on the coherent states associated with these kinematical variables.

Fonctions d'une variable complexe

Helmut FLORIAN, Klaus HACKL, Franz Josef SCHNITZER, Wolfgang TUTSCHKE, (Editors). — **Generalized analytic functions: theory and applications to mechanics.** — International Society for analysis, applications and computation, vol. 1. — Un vol. relié, 16,5×24,5, de XXVI, 311 p. — ISBN 0-7923-5043-X. — Prix: Dfl. 260.00. — Kluwer Academic Publishers, Dordrecht, 1998.

The contributions on generalized analytic functions of these conference proceedings deal not only with problems in the complex plane but also related problems in higher dimensions which are investigated where both several complex variables and the technique of Clifford analysis are used. The second part of the proceedings is devoted to applications to mechanics. A substantial number of the papers of this part deal with problems in Ocean Acoustics.

Katsuhiko MATSUZAKI, Masahiko TANIGUCHI. — **Hyperbolic manifolds and Kleinian groups.** — Oxford mathematical monographs. — Oxford science publications. — Un vol. relié, 16×24, de IX, 253 p. — ISBN 0-19-850062-9. — Prix: £60.00. — Clarendon Press, Oxford, 1998.

This book is a comprehensive guide to the theory of Kleinian groups from the viewpoints of both geometry and analysis. A Kleinian group is a discrete subgroup of the isometry group of