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most recent developments in complex analysis related to PDE techniques and differential geometry. CR structures and the Bergman kernel are discussed in several articles. Some authors pursue the implications of these and other topics in diverse fields, ranging from algebraic geometry to theoretical physics.

Michael SCHNEIDER, Yum-Tong SIU, (Editors). — **Several complex variables.** — Mathematical Sciences Research Institute Publications, vol. 37. — Un vol. relié, $16,5 \times 24$, de XII, 564 p. — ISBN 0-521-77086-6. — Prix: £40.00. — Cambridge University Press, Cambridge, 1999.

Several complex variables is a central area of mathematics with strong interactions with partial differential equations, algebraic geometry, number theory, and differential geometry. The 1995-96 MSRI program on several complex variables emphasized these interactions and concentrated on developments and problems of current interest that capitalize on this interplay of ideas and techniques. The collection provides a remarkably clear and complete picture of the status of research in these overlapping areas and will provide a basis for significant continued contributions from researchers. Several of the articles are expository or have extensive expository sections, making this an excellent introduction for students to the use of techniques from these other areas in several complex variables.

Equations différentielles ordinaires

Ravi P. AGARWAL, Donal O'REGAN and Patricia J.Y. WONG. — **Positive solutions of differential, difference and integral equations.** — Un vol. relié, $16,5 \times 24,5$, de XI, 416 p. — ISBN 0-7923-5510-5. — Prix: Dfl. 350.00. — Kluwer Academic Publishers, Dordrecht, 1999.

In analysing nonlinear phenomena many mathematical models give rise to problems for which only nonnegative solutions make sense. In the last few years this discipline has grown dramatically. This state-of-art volume offers the authors' recent work, reflecting some of the major advances in the field as well as the diversity of the subject. This volume will be of interest to graduate students and researchers in mathematical analysis and its applications, whose work involves ordinary differential equations, finite differences and integral equations.

S. ALBEVERIO and P. KURASOV. — **Singular perturbations of differential operators: solvable Schrödinger type operators.** — London Mathematical Society lecture note series, vol. 271. — Un vol. broché, 15×23 , de XIV, 429 p. — ISBN 0-521-77912-X. — Prix: £29.95. — Cambridge University Press, Cambridge, 2000.

Differential (and more general self-adjoint) operators involving singular interactions arise naturally in a range of topics such as classical and quantum physics, chemistry and electronics. This book presents a systematic mathematical study of these operators, with particular emphasis on spectral and scattering problems. Suitable for researchers in analysis or mathematical physics, this book could also be used as a text for an advanced course on the applications of analysis.

Equations aux dérivées partielles

Demetrios CHRISTODOULOU. — **The action principle and partial differential equations.** — Annals of mathematics studies, vol. 146. — Un vol. broché, $15 \times 23,5$, de VIII, 319 p. — ISBN 0-691-04967-2. — Prix: US\$24.00, (relié: US\$89.50). — Princeton University Press, Princeton N.J., 2000.

This book introduces new methods in the theory of partial differential equations derivable from a Lagrangian. These methods constitute, in part, an extension to partial differential