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Mesure et intégration

M. CARTER, B. VAN BRUNT. — **The Lebesgue-Stieltjes integral: a practical introduction.** — Undergraduate texts in mathematics. — Un vol. relié, 16×24 , de IX, 228 p. — ISBN 0-387-95012-5. — Prix : DM 89.00. — Springer, New York 2000.

The authors aim to introduce the Lebesgue-Stieltjes integral on the real line in a natural way as an extension of the Riemann integral. They make the treatment as practical as possible. The evaluation of Lebesgue-Stieltjes integrals is discussed in detail, as are the key theorems of integral calculus as well as the standard convergence theorems. The book then concludes with the brief discussion of multivariate integrals and surveys of L^p spaces and some applications. Exercises, which extend and illustrate the theory, and provide practice in techniques, are included.

Fonctions d'une variable complexe

Steven G. KRANTZ. — **Handbook of complex variables.** — Un vol. relié, 16×24 , de XXIV, 290 p. — ISBN 0-8176-4011-8. — Prix : SFr. 128.00. — Birkhäuser, Boston, 2000.

This text is a comprehensive reference work for scientists and engineers who need to know and use essential information and methods involving complex variables and analysis. Its focus is on basic concepts and informational tools for mathematical practice: solving problems in applied mathematics, science and engineering. The information is self-contained and accessible to a broad readership. All the indispensable ideas are presented, as well as applications topics and a brief survey of available computer software. The material has been carefully organized for quick, convenient reference by specialists and non-specialists alike.

Fonctions de plusieurs variables complexes

P. DOLBEAULT, A. IORDAN, G. HENKIN, H. SKODA, J.-M. TRÉPREAU, (Editors). — **Complex analysis and geometry: International Conference in honor of Pierre Lelong.** — Progress in mathematics, vol. 188. — Un vol. relié, 16×24 , de XIV, 241 p. — ISBN 3-7643-6352-5. — Prix : SFr. 98.00. — Birkhäuser, Basel, 2000.

The book opens with an exposition of the achievements of Pierre Lelong on plurisubharmonic functions, closed positive currents, and their further study by other mathematicians. Moreover, a list of eleven open problems is given. All other contributions contain new results related, for example, to the following items: capacities, product of positive currents, L^2 extension theorems, Bergman kernels and metrics, new properties of convex domains of finite type: non compact boundaries of Levi-flat hypersurfaces of C^2 , compact boundary problems as application of compactly supported measures orthogonal to polynomials, Hartogs' theorem on some open subsets of a projective manifold, Malgrange vanishing theorem with support conditions, etc.

Jacque FARAUT, Soji KANEYUKI, Adam KORÁNYI, Qi-keng LU, Guy ROOS. — **Analysis and geometry on complex homogeneous domains.** — Progress in mathematics, vol. 185. — Un vol. relié, $16,5 \times 24$, de XVII, 540 p. — ISBN 0-8176-4138-6. — Prix : SFr. 118.00. — Birkhäuser, Boston, 2000.

This introductory text covers a number of important areas in complex analysis and geometry. Written by experts in their respective fields, each of the five chapters unfolds from the basics to the more complex. Unlike other more laborious introductory texts, the exposition here is rapid-paced and efficient, without compromising proofs and examples that enable the reader to grasp