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Fonctions d'une variable complexe

Rami SHAKARCHI. — **Problems and solutions for complex analysis.** — Un vol. broché, 15,5×23,5, de xi, 246 p. — ISBN 0-387-98831-9. — Prix: DM 69.00. — Springer, New York, 1999.

This volume contains all the exercises, and their solutions, for Serge Lang's fourth edition of *Complex Analysis*. The problems in the first 8 chapters are suitable for an introductory course at the undergraduate level and cover the following topics: power series, Cauchy's theorem, Laurent series, singularities and meromorphic functions, the calculus of residues, conformal mappings, and harmonic functions. The material in chapters 9 to 16 is more advanced. The reader will find problems on Schwartz reflection, analytic continuation, Jensen's formula, the Phragmén-Lindelöf theorem, entire functions, Weierstrass products, meromorphic functions, the Gamma function, and the Zeta function.

Fonctions de plusieurs variables complexes

Christina BIRKENHAKE, Herbert LANGE. — **Complex tori.** — Progress in mathematics, vol. 177. — Un vol. relié, 16×24, de xv, 251 p. — ISBN 0-8176-4103-3. — Prix: SFr. 98.00. — Birkhäuser, Boston, 1999.

This work is at the crossroads of a number of mathematical areas, including algebraic geometry, several complex variables, differential geometry, and representation theory. The authors, both expert mathematicians in the area of complex manifolds and representation theory, focus on complex tori, which are interesting for their own sake being the simplest of complex manifolds, and important in the theory of algebraic cycles via intermediate Jacobians. Although special complex tori, namely abelian varieties, have been investigated for nearly 200 years, not much is known about arbitrary complex tori. There are very few papers on the subject and no book to date.

Seán DINEEN. — **Complex analysis on infinite dimensional spaces.** — Springer monographs in mathematics. — Un vol. relié, 17×24, de xv, 543 p. — ISBN 1-85233-158-5. — Prix: DM 179.00. — Springer, London, 2000.

The first two chapters of this book are a self-contained study of polynomials and highlight the interplay between polynomial estimates and the geometry of Banach spaces. The third chapter covers the basic theory of holomorphic functions and illustrates intrinsic properties of the infinite dimensional theory. The (BB) -property, which originated in the theory of topological tensor products, and the (DN) -property, which occupies an important place in the modern structural theory of Fréchet spaces, are shown, in chapter four, to play key roles in uncovering key relationships between the three main topologies considered. The Levi problem for Riemann domains over Fréchet spaces with the bounded approximation property is solved in chapter five while holomorphic extensions, of different kinds, are the unifying theme which draws together, in the final chapter, many of the ideas discussed in earlier chapters.

Gen KOMATSU, Masatake KURANISHI, (Editors). — **Analysis and geometry in several complex variables.** — Proceedings of the 40th Taniguchi Symposium. — Trends in mathematics. — Un vol. relié, 16,5×24, de x, 314 p. — ISBN 0-8176-4067-3. — Prix: SFr. 158.00. — Birkhäuser, Boston, 1999.

Since the inhomogeneous Cauchy-Riemann equation was introduced in the study of complex analysis of several variables, there has been strong interaction between complex analysis and real analysis, in particular, the theory of partial differential equations. This volume is an outgrowth of the 40th Taniguchi Symposium held in Katata, Japan. Highlighted are the