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this theory, which has many applications in both group theory and number theory. The first part of the book is group theoretic. It develops the theory of pro- p groups of finite rank, starting from the first principles and using elementary methods. Part II introduces p -adic analytic groups. Part III, consisting of material new to the second edition, takes the theory further. Among those topics dealt with are the theory of pro- p groups of finite coclass, the dimension subgroup series, and its associated graded Lie algebra.

V.S. VARADARAJAN. — **An introduction to harmonic analysis on semisimple Lie groups.** — Cambridge studies in advanced mathematics, vol. 16. — Un vol. broché, 15×23 , de x, 316 p. — ISBN 0-521-66362-8. — Prix: £24.95. — Cambridge University Press, Cambridge, 1999.

This graduate-level textbook is an introduction to the representation theory of semisimple Lie groups. As such, it will be suitable for research students in algebra and analysis, and for research mathematicians requiring a readable account of the topic. The author emphasizes the development of the central themes of the subject in the context of special examples, without losing sight of its general flow and structure. The author begins with an account of compact groups and discusses the Harish Chandra modules. Then he introduces the Plancherel formula and theory of Eisenstein integrals. The final sections are devoted to considering the irreducible characters of semisimple Lie groups, including explicit calculations of $SL_2(\mathbf{R})$.

Mesure et intégration

Daniel W. STROOCK. — **A concise introduction to the theory of integration.** — Third edition. — Un vol. relié, $18,5 \times 26$, de xiv, 253 p. — ISBN 0-8176-4073-8. — Prix: SFr. 50.00. — Birkhäuser, Boston, 1999.

The major new feature of this third edition is the inclusion of a new chapter which introduces the Fourier transform. Since Hermite functions play a central role in his treatment of Parseval's identity and the inversion formula, Stroock's approach bears greater resemblance to that adopted by Norbert Wiener than it does to that used in most modern introductory texts. An additional feature of this edition is that solutions to all problems are provided. As a self-contained text, this book is excellent for both self-study and the classroom.

Fonctions de plusieurs variables complexes

Kichoon YANG. — **Meromorphic functions and projective curves.** — Mathematics and its applications, vol. 464. — Un vol. relié, 16×25 , de vii, 201 p. — ISBN 0-7923-5505-9. — Prix: Dfl. 175.00. — Kluwer Academic Publishers, Dordrecht, 1999.

The main purpose of this volume is to give an exposition of various aspects of meromorphic functions and linear series on algebraic curves, with some emphasis on families of meromorphic functions. It is written in such a way as to facilitate their applications in other areas of mathematics. Meromorphic functions on a compact Riemann surface, or, more generally, holomorphic curves and linear series, have numerous applications in many different areas of mathematics. This work gives a concise survey of results in the elementary theory of meromorphic functions and divisors on curves, and makes these results more accessible to students and non-experts, in particular differential geometers.