

**Zeitschrift:** L'Enseignement Mathématique  
**Herausgeber:** Commission Internationale de l'Enseignement Mathématique  
**Band:** 45 (1999)  
**Heft:** 3-4: L'ENSEIGNEMENT MATHÉMATIQUE

**Kapitel:** Mesure et intégration

### **Nutzungsbedingungen**

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

### **Conditions d'utilisation**

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

### **Terms of use**

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

**Download PDF:** 06.03.2026

**ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>**

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,  $15 \times 23$ , 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,  $16 \times 25$ , 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.