

Zeitschrift: L'Enseignement Mathématique
Herausgeber: Commission Internationale de l'Enseignement Mathématique
Band: 47 (2001)
Heft: 1-2: L'ENSEIGNEMENT MATHÉMATIQUE

Kapitel: Théorie du potentiel

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: 15.04.2026

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

Mesure et intégration

Washek F. PFEFFER. — **Derivation and integration.** — Cambridge tracts in mathematics, vol. 140. — Un vol. relié, $16 \times 23,5$, de xvi, 266 p. — ISBN 0-521-79268-1. — Prix: £45.00. — Cambridge University Press, Cambridge, 2001.

This book is devoted to an invariant multidimensional process of recovering a function from its derivative. It considers additive functions defined on the family of all bounded BV sets that are continuous with respect to a suitable topology. A typical example is the flux of a continuous vector field. A very general Gauss-Green theorem follows from the sufficient conditions for the derivability of the flux. Since the setting is invariant with respect to local lipeomorphisms, a standard argument extends the Gauss-Green theorem to the Stokes theorem on Lipschitz manifolds. In addition, the author proves the Stokes theorem for a class of top-dimensional normal currents – a first step toward solving a difficult open problem of derivation and integration in middle dimensions.

Fonctions d'une variable complexe

Raghavan NARASIMHAN, Yves NIEVERGELT. — **Complex analysis in one variable.** — Second edition. — Un vol. relié, $16,5 \times 24$, de xiv, 381 p. — ISBN 0-8176-4164-5. — Prix: SFr. 118.00. — Birkhäuser, Boston, 2001.

This book presents complex analysis in one variable in the context of modern mathematics, with clear connections to several complex variables, de Rham theory, real analysis, and other branches of mathematics. New to this second edition, a collection of over 100 pages worth of exercises, problems, and examples gives students an opportunity to consolidate their command of complex analysis and its relations to other branches of mathematics, including advanced calculus, topology, and real applications.

Théorie du potentiel

David H. ARMITAGE, Stephen J. GARDINER. — **Classical potential theory.** — Springer monographs in mathematics. — Un vol. relié, $16,5 \times 24$, de xvi, 333 p. — ISBN 1-85233-618-8. — Prix: DM 159.00. — Springer, London, 2001.

This book covers harmonic and subharmonic functions, maximum principles, polynomial expansions, Green functions, potentials and capacity, the Dirichlet problem and boundary integral representations. The first six chapters deal concretely with the basic theory, and include exercises. The final three chapters are more advanced and treat topological ideas specifically created for potential theory, such as the fine topology, the Martin boundary and minimal thinness. The presentation is largely self-contained and is accessible to graduate students, with the only prerequisites being a reasonable grounding in analysis and several variables calculus, and a first course in measure theory.

Fonctions de plusieurs variables complexes

Marek JARNICKI, Peter PFLUG. — **Extension of holomorphic functions.** — De Gruyter expositions in mathematics, vol. 33. — Un vol. relié, $17,5 \times 24,5$, de x, 487 p. — ISBN 3-11-015363-7. — Prix: DM 248.00. — Walter de Gruyter, Berlin, 2000.

From the authors' preface: This monograph is devoted to a systematic exposition of the theory of extension of holomorphic functions, e. g. characterizations of envelopes of holomorphy