

**Zeitschrift:** L'Enseignement Mathématique  
**Herausgeber:** Commission Internationale de l'Enseignement Mathématique  
**Band:** 48 (2002)  
**Heft:** 1-2: L'ENSEIGNEMENT MATHÉMATIQUE

**Kapitel:** Topologie algébrique

#### 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:** 05.08.2025

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

all robust features of a smooth surface, which are rarely treated in elementary courses on differential geometry, are considered here in detail. These features are of immediate relevance in modern areas of application such as interpretation of range data from curved surfaces and the processing of magnetic resonance and cat-scan images. The text is based on extensive teaching at Liverpool University to audiences of advanced undergraduate and beginning postgraduate students in mathematics.

Gabor TOTH. — **Finite Möbius groups, minimal immersions of spheres, and moduli.** — Universitext. — Un vol. relié, 16 × 24, de xvi, 317 p. — ISBN 0-387-95323-X. — Prix : € 74.95. — Springer, New York, 2002.

In this book, the author traces the development of the study of spherical minimal immersions over the past 30-plus years, including Takahashi's 1966 proof regarding the existence of isometric minimal immersions, DoCarmo and Wallach's study of the uniqueness of the standard minimal immersions that have been obtained by the equivariant construction as  $SU(2)$ -orbits, first used by Mashimo in 1984 and then later by DeTurck and Ziller in 1992. In trying to make this monograph accessible not just to research mathematicians but to mathematics graduate students as well, the author included sizeable pieces of material from upper-level undergraduate courses, additional graduate level topics such as Felix Klein's classic treatise of the icosahedron, and a valuable selection of exercises.

## ***Topologie algébrique***

Allen HATCHER. — **Algebraic topology.** — Un vol. broché, 17,5 × 25,5, de xii, 544 p. — ISBN 0-521-79540-0 (relié : 0-521-79160X). — Prix : £20.95 (relié : £60.00). — Cambridge University Press, Cambridge, 2002.

This geometrically flavored introduction to algebraic topology has the dual goals of serving as a textbook for a standard graduate-level course and as a background reference for many additional topics that do not usually fit into such a course. The broad coverage includes both the homological and homotopical sides of the subject. Care has been taken to present a readable, self-contained exposition, with many examples and exercises, aimed at the student or the researcher from another area of mathematics seeing the subject for the first time.

## ***Topologie des variétés, analyse globale et analyse des variétés***

Stanko DIMIEV, Kouei SEKIGAWA, (Editors). — **Perspectives of complex analysis, differential geometry and mathematical physics.** — Proceedings of the 5<sup>th</sup> International Workshop on Complex Structures and Vector Fields, St. Konstantin, Bulgaria, 3-9 September 2000. — Un vol. relié, 16 × 23, de x, 208 p. — ISBN 981-02-4597-1. — Prix : £58.00. — World Scientific, Singapore, 2001.

This workshop brought together specialists in complex analysis, differential geometry, mathematical physics and applications for stimulating cross-disciplinary discussions. The lectures presented ranged over various current topics in those fields. The proceedings will be of value to graduate students and researchers in complex analysis, differential geometry and theoretical physics, and also related fields. 18 papers by V.P. Kostov, L.N. Apostolova, M.S. Marinov, K.P. Petrov, A.M. Kyrmannov, S.G. Myslivets, S. Dimiev, J. Lawrynowicz, L.M. Tovar, Y. Hashimoto, K. Ohba, K. Kikuchi, S. Nagami, T. Adachi, H. Hashimoto, K. Mashimo, G. Ganchev, V. Mihova, V. Milousheva, M. Hristov, M. Manev, B.G. Dimitrov, I.B. Pestov, S. Manoff, G. Zlatanov.