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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,  $16 \times 24$ , 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,  $17,5 \times 25,5$ , 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*

Stancho 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,  $16 \times 23$ , 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. Kytmanov, S.G. Myslivets, S. Dimiev, J. Ławrynówicz, 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.