

# Ensembles convexes et inégalités géométriques

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are still linear algebra, finite field theory, and projective geometry; despite the applicability, the reformulation of many results in terms of coding theory has been eschewed. But links with coding theory are described.

Silvio LEVY, (Editor). — **Flavors of geometry.** — Mathematical Sciences Research Institute publications, vol. 31. — Un vol. broché,  $16 \times 23,5$ , de IX, 194 p. — ISBN 0-521-62962-4. — Prix: £13.95 (relié: £37.50). — Cambridge University Press, Cambridge, 1997.

This book is a volume of lectures on four geometrically influenced fields of mathematics that have experienced great development in recent years. It presents chapters on hyperbolic geometry, dynamics in several complex variables, convex geometry, and volume estimation, by masters in their respective fields. Each lecture begins with a discussion of elementary concepts, examines the highlights of the field, and concludes with a look at more advanced material. The style and presentation of the chapters are clear and accessible, and most of the lectures are illustrated.

George E. MARTIN. — **Geometric constructions.** — Undergraduate texts in mathematics. — Un vol. relié,  $16,5 \times 24,5$ , de XI, 203 p. — ISBN 0-387-98276-0. — Prix: DM 69.00. — Springer, New York, 1998.

The first chapter of this book is informal and starts from scratch, introducing all the geometric constructions from high school that have been forgotten or were never seen. The second chapter formalizes Plato's game and examines problems from antiquity such as the impossible way of trisecting an arbitrary angle. After that, variations on Plato's theme are explored: using only a ruler, using only a compass, using toothpicks, using a ruler and dividers, using a marked rule, using a tomahawk, and ending with a chapter on geometric constructions by paperfolding.

## *Ensembles convexes et inégalités géométriques*

W.A. COPPEL. — **Foundations of convex geometry.** — Australian Mathematical Society lecture series, vol. 12. — Un vol. broché,  $15 \times 23$ , de XIV, 222 p. — ISBN 0-521-63970-0. — Prix: £24.95. — Cambridge University Press, Cambridge, 1998.

This book on the foundations of Euclidean geometry aims to present the subject from the point of view of present day mathematics, taking advantage of all the developments since the appearance of Hilbert's classic work. Here real affine space is characterized by a small number of axioms involving points and line segments, making the treatment self-contained and thorough, many results being established under weaker hypotheses than usual.

## *Géométrie différentielle*

Sorin DRAGOMIR, Liviu ORNEA. — **Locally conformal Kähler geometry.** — Progress in mathematics, vol. 155. — Un vol. relié.  $16 \times 25$ , de XI, 327 p. — ISBN 0-8176-4020-7. — Prix: SFr. 148.00. — Birkhäuser, Boston, 1998.

This monograph covers topics in complex geometry, an area of mathematical growth in recent years. The latest topics are addressed systematically, bringing us to the cutting edge in the mathematics of locally conformal Kähler (l.c.K.) manifold theory. This book is a differential geometric study of l.c.K. manifolds (i.e., manifolds carrying some l.c.K. metric) and their submanifolds. While the latest results on Vaisman's conjectures, spectral geometry of generalized Hopf manifolds, harmonic and holomorphic forms of l.c.K. manifolds, and pseudoharmonic maps of Hermitian surfaces are reviewed throughout mathematics literature, here they are presented in a systematic manner, and many specific examples are discussed from this wider perspective.