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T. Y. LAM. — **A first course in noncommutative rings.** — Second edition. — Graduate texts in mathematics, vol. 131. — Un vol. broché, 15,5×23,5, de XIX, 385 p. — ISBN 0-387-95325-6. — Prix: DM 106.89. — Springer, New York, 2001.

This book, an outgrowth of the author's lectures at the University of California at Berkeley, is intended as a textbook for a one-semester course in basic ring theory. The material covered includes the Wedderburn-Artin theory of semisimple rings, Jacobson's theory of the radical, representation theory of groups and algebras, prime and semiprime rings, primitive and semi-primitive rings, division rings, ordered rings, local and semilocal rings, perfect and semiperfect rings, and so forth. More than 400 exercises testing the understanding of the general theory in the text are included in this new edition.

Günter SCHEJA, Uwe STORCH. — **Regular sequences and resultants.** — Research notes in mathematics, vol. 8. — Un vol. relié, 16×23,5, de VIII, 142 p. — ISBN 1-56881-151-9. — Prix: US\$30.00. — A.K. Peters, Natick, Mass., 2001.

This book provides a valuable complement to sparse elimination theory in that it presents, in careful detail, the algebraic difficulties of working over general base rings, which is essential for many applications including arithmetic geometry. In particular, a new approach to the construction and interpretation of resultants and their divisors has been developed using explicit duality for complete intersections. Necessary tools concerning monoids of weights, generic polynomials, and regular sequences are treated independently in the first part of the book. Supplements added to each section provide extra details and insightful examples.

## *Catégories, algèbre homologique, cohomologie des groupes*

Jürgen KOSŁOWSKI, Austin MELTON, (Editors). — **Categorical perspectives.** — Trends in mathematics. — Un vol. relié, 16×24, de X, 281 p. — ISBN 0-8176-4186-6. — Prix: SFr. 148.00. — Birkhäuser, Boston, 2001.

This book consists of introductory surveys as well as articles containing original research and complete proofs devoted mainly to the theoretical and foundational developments of category theory and its applications to other fields. A number of articles in the areas of topology, algebra, and computer science reflect the varied interests of George Strecker to whom this work is dedicated. Notable also are an exposition of the contributions and importance of George Strecker's research and a survey chapter on general category theory.

## *Théorie des groupes et généralisations*

Pierre-Alain CHERIX, Michael COWLING, Paul JOLISSAINT, Pierre JULG, Alain VALETTE. — **Groups with the Haagerup property: Gromov's a-T-menability.** — Progress in mathematics, vol. 197. — Un vol. relié, 16,5×24, de VII, 126 p. — ISBN 3-7643-6598-6. — Prix: SFr. 78.00. — Birkhäuser, Basel, 2001.

The aim of this book is to cover, for the first time in book form, various aspects of the Haagerup property. New characterisations are brought in, using ergodic theory or operator algebras. Several new examples are given, and new approaches to previously known examples are proposed. Connected Lie groups with the Haagerup property are completely characterized. The book, which ends with a list of open questions, will be of interest to graduate students and researchers in the fields of geometry, group theory, harmonic analysis, ergodic theory, and operator algebras.