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topology and been introduced in algebraic geometry about thirty years ago. Building on the algebraic form described in *Intersection Theory* by W. Fulton, Paul Roberts presents further developments and important algebraic applications that were not known at the time Fulton's book was written. Some of these applications come from the author's own work.

Askar A. TUGANBAEV. — **Semidistributive modules and rings.** — Mathematics and its applications, vol. 449. — Un vol. relié, 17×25, de x, 352 p. — ISBN 0-7923-5209-2. — Prix: Dfl. 290.00. — Kluwer Academic Publishers, Dordrecht, 1998.

This is the first monograph on the theory of semidistributive modules and rings. It investigates such topics as the relationship between semidistributive modules and flat, projective, injective, multiplication, as well as Bézout modules. The volume concludes with an extensive bibliography. It can be recommended as an introduction to structural and homological ring theory, and will prove useful for postgraduates and researchers specialising in algebra.

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

David M. CLARK, Brian A. DAVEY. — **Natural dualities for the working algebraist.** — Cambridge studies in advanced mathematics, vol. 57. — Un vol. relié, 16×23,5, de xii, 356 p. — ISBN 0-521-45415-8. — Prix: £40.00. — Cambridge University Press, Cambridge, 1998.

The theory of natural dualities, as presented in this text, is broad enough to encompass many known dualities through a rich assortment of substantive theorems yet concrete enough to be used to generate an array of previously undiscovered dualities. This text will serve as a user manual for algebraists, for category theorists and for those who use algebra in their work, particularly mathematicians and computer scientists interested in non-classical logics. As the first text devoted to the theory of natural dualities, it provides an efficient path through a large body of results, examples and applications in this subject which is otherwise available only in scattered research papers.

### *Théorie des groupes et généralisations*

C.M. CAMPBELL, E.F. ROBERTSON, N. RUSKUC, G.C. SMITH, (Editors). — **Groups St Andrews 1997 in Bath, I and II.** — London Mathematical Society lecture note series, vol. 260, 261. — Deux vol. brochés, 15,5×23, de x, 737 p. pour l'ensemble. — ISBN 0-521-65588-9 (vol. 1), 0-521-65576-5 (vol. 2). — Prix: £29.95 (vol. 1), £29.95 (vol. 2). — Cambridge University Press, Cambridge, 1999.

This two-volume book contains selected papers from the international conference "Groups St Andrews 1997 in Bath". The articles are arranged in roughly alphabetical order and cover a wide spectrum of modern group theory. There are articles based on lecture courses given by five main speakers together with refereed survey and research articles contributed by other conference participants. Proceedings of earlier "Groups St Andrews" conferences have had a major impact on the development of group theory and these volumes should be equally important.

Peter J. CAMERON. — **Permutation groups.** — London Mathematical Society student texts, vol. 45. — Un vol. broché, 15×23, de x, 220 p. — ISBN 0-521-65378-9. — Prix: £15.95 (relié: £42.50). — Cambridge University Press, Cambridge, 1999.

Permutation groups are one of the oldest topics in algebra. Their study has recently been revolutionised by new developments, particularly the classification of finite simple groups, but also relations with logic and combinatorics, and importantly, computer algebra systems have