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Logique et fondements

Walter A. CARNIELLI, Marcelo E. CONIGLIO, Itala M. LOFFREDO D'OTTAVIANO, (Editors). — **Paraconsistency: the logical way to the inconsistent.** — Proceedings of the World Congress held in São Paulo. — Lecture notes in pure and applied mathematics, vol. 228. — ISBN 0-8247-0805-9. — Prix: US\$ 185.00. — Marcel Dekker, New York, 2002.

This compilation of the material presented at the 2nd World Congress on Paraconsistency introduces the logics of formal inconsistency... details several well-known paraconsistent systems and their subclasses, and highlights several new varieties of paraconsistent structures... establishes new relationship between paraconsistent, ambiguous, fuzzy, many-valued, and modal logics... presents innovative approaches to the problem of referential and inferential many valuedness... proposes a logical system to place the study of antinomies in its most general setting... introduces the system NCG_w , a sequent calculus formulation equivalent to da Costa's system C_w , and obtains new results on proof theory for this system... evaluates systems of logic such as Inconsistent Default Logic (IDL) and Logic of Epistemic Inconsistency (LEI) well suited to formalize reasoning under incomplete knowledge.

David MARKER. — **Model theory: an introduction.** — Graduate texts in mathematics, vol. 217. — Un vol. relié, 16×24, de VIII, 342 p. — ISBN 0-387-98760-6. — Prix: € 64.95. — Springer, New York, 2002.

This book is a modern introduction to model theory that stresses applications to algebra throughout the text. The first half of the book includes classical material on model construction techniques, types spaces, prime models, saturated models, countable models, and indiscernibles and their applications. The author also includes an introduction to stability theory beginning with Morley's Categoricity Theorem and concentrating on omega-stable theories. One significant aspect of this text is the inclusion of chapters on important topics not covered in other introductory texts, such as omega-stable groups and the geometry of strongly minimal sets. The author then goes on to illustrate how these ingredients are used in Hrushovski's applications to Diophantine geometry.

Analyse combinatoire

Béla BOLLOBAS, (Editor). — **Contemporary combinatorics.** — Bolyai Society mathematical studies, vol. 10. — Un vol. relié, 17×24,5, de 301 p. — ISBN 3-540-4275-2. — Prix: € 69.95. — Springer, Berlin, Janos Bolyai Mathematical Society, Budapest, 2002.

This volume is a collection of survey papers in combinatorics that have grown out of lectures given in the Workshop on Probabilistic Combinatorics at the Paul Erdős Summer Research Center in Mathematics in Budapest. The papers, reflecting the many facets of modern-day combinatorics, will be appreciated by specialists and general mathematicians alike: assuming relatively little background, each paper gives a quick introduction to an active area, enabling the reader to learn about the fundamental results and appreciate some of the latest developments. An important feature of the articles, very much in the spirit of Erdős, is the abundance of open problems.

Alan TUCKER. — **Applied combinatorics.** — Fourth edition. — Un vol. relié, 16×24, de IX, 446 p. — ISBN 0-471-43809-X. — Prix: £ 40.95. — John Wiley, New York, 2002.

From the preface: This book teaches students in the mathematical sciences how to reason and model combinatorially. It seeks to develop proficiency in basic discrete math problem solving in the way that a calculus textbook develops proficiency in basic analysis problem solving.