

problems of theoretical physics. It deserves to be widely read and should serve as a valuable source of research problems and of additional material for conventional courses in general relativity and quantum field theory.

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**Perspectives in Nonlinearity**, by Melvyn S. Berger and Marion S. Berger. 189 pages. Benjamin, New York, 1968. Cloth U.S. \$12.50; Paper U.S. \$3.95.

The book centres around the degree of a mapping and critical point theory in a way directed to applications in differential equations. The careful introduction of the main concepts, through the finite dimensional case to infinite dimensions, makes this book an excellent starting point for students of the subject. The selected applications in both ordinary and elliptic differential equations are well suited to indicate the power of the theory and give the student a feeling for its use.

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**Exercices de Combinatoire avec Solutions: Tome 1**, par A. Kaufmann et D. Coster. XII + 155 pages. Dunod, Paris, 1969. 29F.

The first part of Kaufmann's *Introduction à la Combinatoire en vue des applications*, which was reviewed in this Bulletin, (1) 12 (1969), p. 112, deals with the classical enumeration problems. The present volume contains the solutions to nearly all the exercises in this part of the book; the solutions of the exercises in the remainder of the book are reserved for later volumes. The solutions and explanations are sufficiently detailed to be useful, perhaps, in a course on combinatorics even if Kaufmann's book is not used as the text.

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**An Introduction to Mathematical Logic**, by Gerson B. Robison. xii + 212 pages. Prentice-Hall, Englewood Cliffs, N.J., 1969.

The author states that this textbook is intended for use by mathematics students in their middle undergraduate years. There are twelve chapters. In the first three the student is introduced very gently to the propositional calculus ("Where do little axioms come from?"). Ch. IV through X introduce the first order predicate calculus (Ch. IX being devoted to "Techniques of Negation"). And Ch. XI and XII introduce the membership relation and Boolean algebras. In the reviewer's