**FORTHCOMING**

**Integer Partitions**

George E. Andrews, Pennsylvania State University

and Kimmo Eriksson, Mälardalen University College

Provides a wide ranging introduction to partitions, accessible to any reader familiar with polynomials and infinite series.

**Contents:**

2004 228 x 152 mm 140 pages 58 line diagrams 168 exercises

5 tables

0521 60090 1 Paperback c. £15.99

For more information, please visit:
www.cambridge.org/0521600901

**Introductory Algebraic Number Theory**

Saban Alaca and Kenneth S. Williams, Carleton University, Ottawa

An introduction to the subject suitable for senior undergraduates and beginning graduate students in mathematics.

**Contents:**

2004 253 x 177 mm 446pp 16 tables 320 exercises

0 521 54011 9 Paperback £24.99

For more information, please visit:
www.cambridge.org/0521540119
Exploratory Galois Theory

John Swallow, Davidson College, North Carolina

Assuming only a first course in abstract algebra, this original book develops Galois theory at an entirely undergraduate level, grounding the presentation in the concept of algebraic numbers with complex approximations. The presentation of the theory is organized around natural questions about algebraic numbers, while exercises – with hints and proof sketches – encourage students’ participation in the development. What is more, readers with Maple or Mathematica will gain an unprecedented familiarity with the subject, from the book’s tools for hands-on experimentation with finite extensions of the rational numbers.

Coverage includes classical applications, from ruler-and-compass constructions to solvability by radicals. It also outlines the generalization from subfields of the complex numbers to arbitrary fields. The text is appropriate for traditional lecture courses, and for self-paced independent study.

Contents