Approximation Theory and Its Applications, Geetha S. Rao, Ed., New Age International, New Delhi, 1996, viii + 226 pp.

During the week of March 26–31, 1993, a special symposium on *Approximation Theory and Its Applications* was held at the Ramanujan Institute for Advanced Study in Mathematics, University of Madras, India, as part of the silver jubilee celebrations of the Ramanujan Institute. This volume contains invited survey articles and original unpublished papers, duly refereed. They are dedicated to K. R. Unni of the Institute of Mathematical Sciences, Madras. The book contains a short profile of K. R. Unni (one of the days of the symposium was dedicated to him on the occasion of his 60th birthday) and a survey on "What are wavelets?" written by him. There are 18 other contributions dealing with characterization of Besov spaces, best approximation, best co-approximation, operators of Szász–Beta, Baskakov and Phillips, Bernstein polynomials, interpolation, linear and non-linear programming, and splines.

ARTICLE NO. AT973152

Approximation Theory and Function Spaces, P. Vértesi, L. Leindler, F. Móricz, Sz. Révész, J. Szabados, and V. Totik, Eds., János Bolyai Mathematical Society, distributed by the American Mathematical Society, 1997, 367 pp.

This volume contains 22 selected papers (including 5 survey works) from the International Conference on *Approximation Theory and Function Series*, dedicated to Károly Tandori at the occasion of his 75th birthday, and held in Budapest, August 21–25, 1995. The main topics covered in this conference were Fourier series, Fourier analysis, interpolation, approximation in abstract spaces, and inequalities. The 5 survey papers are written by J. Korevaar (Fekete extreme points and related problems), D. Leviatan (shape preserving approximation by polynomials and splines), D. S. Lubinsky (Jackson and Bernstein theorems for exponential weights), G. Mastroianni (boundedness of Lagrange operator in some functional spaces), and S. M. Nikolskii (approximation on the manifolds given by trigonometric polynomials). Furthermore there is a nice contribution by F. Móricz on the scientific work of Károly Tandori.

ARTICLE NO. AT973153

Special Functions, q-Series and Related Topics, Mourad E. H. Ismail, David R. Masson, and Mizan Rahman, Eds., Fields Institute Communications **14**, American Mathematical Society, 1997, x + 277 pp.

A Fields Institute workshop on *Special Functions, q-Series and Related Topics* was held in Toronto, June 12–23, 1995. The first week consisted of 5 minicourses, the second week of contributed lectures. This book contains 3 of the 5 minicourses (given by G. Gasper, T. H. Koornwinder, and W. Van Assche), and 10 other contributions. The articles cover quantum groups and their representations, multivariate special functions, q-series, symbolic algebra techniques, and traditional areas of single-variable special functions, in particular orthogonal polynomials. These proceedings contain both pure and applied aspects of recent trends of research in the area of special functions.

ARTICLE NO. AT973154