

Harmonic Analysis and Applications

In Honor of John J. Benedetto

CHRISTOPHER HEIL, *Georgia Institute of Technology, Atlanta, GA (Ed.)*

John J. Benedetto has had a profound influence not only on the direction of harmonic analysis and its applications, but also on the entire community of people involved in the field. This self-contained volume in honor of John covers a wide range of topics in harmonic analysis and related areas, including weighted-norm inequalities, frame theory, wavelet theory, time-frequency analysis, and sampling theory. The invited chapters pay tribute to John's many achievements and express an appreciation for both the mathematical and personal inspiration he has given to so many students, coauthors, and colleagues.

2006/XXVIII, 374 PP., 13 ILLUS./HARDCOVER

ISBN 0-8176-3778-8/\$89.95

APPLIED AND NUMERICAL HARMONIC ANALYSIS

Approximation Theory

From Taylor Polynomials to Wavelets

OLE CHRISTENSEN; KHADIJA L. CHRISTENSEN, *both, Technical University of Denmark, Lyngby, Denmark*

"Approximation methods and wavelets have found many important applications in signal processing. This well-written textbook provides an elementary introduction to approximation theory. The authors concentrate on the presentation of main ideas and demonstrate the great influence of classical approximation theory on modern applied mathematics. This book, with many illustrative examples, is easy to read... [and] will be very useful for anyone interested in approximation theory and wavelets."
—ZENTRALBLATT MATH

2004/XI, 162 PP., 11 ILLUS./SOFTCOVER

ISBN 0-8176-3600-5/\$34.95

APPLIED AND NUMERICAL HARMONIC ANALYSIS

Advances in Discrete Tomography and its Applications

GABOR T. HERMAN, *City University of New York, NY*;
ATTILA KUBA, *University of Szeged, Hungary (Eds.)*

This book is a unified presentation of new methods, algorithms, and select applications that are the foundations of multidimensional image construction and reconstruction. The self-contained survey chapters, written by leading mathematicians, engineers, and computer scientists, present cutting-edge research and results in the field. Three main areas are covered: theoretical results, algorithms, and practical applications. Following an historical and introductory overview of the field, the book explores the various mathematical and computational problems of discrete tomography with an emphasis on new applications.

2007/APPROX. 455 PP., 125 ILLUS./HARDCOVER

ISBN 0-8176-3614-5/\$89.95 (TENT.)

APPLIED AND NUMERICAL HARMONIC ANALYSIS

Sampling, Wavelets, and Tomography

JOHN J. BENEDETTO, *University of Maryland, College Park, MD*; AHMED ZAYED, *DePaul University, Chicago, IL (Eds.)*

"The book places emphasis on all three themes it considers. It presents applications with a broad perspective... The book, containing contributions of some of the renowned scientists in the field, is interesting and informative, and presents an insightful approach towards wavelets, sampling theory, and tomography. To conclude, the book is of immense value to the mathematically inclined researcher whose work centers around the application of sampling theory."

—JOURNAL OF THE INDIAN INSTITUTE OF SCIENCE

2004/XXI, 344 PP., 50 ILLUS./HARDCOVER

ISBN 0-8176-4304-4/\$74.95

APPLIED AND NUMERICAL HARMONIC ANALYSIS

CALL: 1-800-777-4643 • FAX: (201) 348-4505

E-MAIL: orders@birkhauser.com

Prices are valid in the Americas only and are subject to change without notice.

For price and ordering information outside the Americas, please contact

Birkhäuser Verlag AG by E-mail: birkhauser@springer.de

Birkhäuser

Boston • Basel • Berlin

www.birkhauser.com

