

Books of Interest

A. Here we shall only list books of interest to our leadership, and we plan to have a section for book reviews.

1. F. Marvasti (Editor). *Non Uniform Sampling – and Practice*. In the information technology ; Transmission, Processing, and Storage Series, Kluwer Academic / Plenum Publishers, New York 2001.xxvi+ 924pp., hard cover. ISBN 0-306-46445-4.
2. A. J. Jerri, *The Gibbs Phenomenon in Fourier Analysis, Splines, and Wavelet Application*. In the Mathematics and its Applications, Kluwer Academic, New York, 1998, \$162. xxiii+ 336pp., hard cover. ISBN 0-7923-5109-6
3. J. R. Higgins and R. L. Stens (Editors). *Sampling Theory in Fourier and Signal Analysis : Advanced Topics*. Oxford Science Publications, Oxford University Press, Oxford, 1999.
4. J. R. Higgins, *Sampling Theory in Fourier and Signal Analysis : Foundations*. CLaredon Press, Oxford, 1996.
5. A. I. Zayed. *Advances in Shannon's Sampling Theory*. CRC Publishers, Boca Raton, FL, 1993.
6. R. J. Marks II (Editor). *Advances in Shannon Sampling Interpolation Theory*. Springs-Verlag, New York, 1993.
7. R. J. Marks II. *Introduction to Shannon Sampling and Interpolation Theory*. Springs-Verlag, New York, 1991.
8. J. J. Benedetto and M. W. Frazier (Editors). *Wavelets : Mathematics and Applications*, CRC Press, Boca Raton, 1993.

B. Books of Interest available at SampTA 03 Workshop, May 26-30, 2003, Strobl, Salzburg, Austria, with good discount (valid through June 30, 2003)

Here we list some of the books available at the SampTA 03, for the others you may call, toll free, 1-800-4643.

1. Benedetto and Ferriera, *Modern Sampling Theory*. ISBN 0-8176-40231-1
2. Benedeto and Zayed, *Sampling, Wavelets, and Tomography*. ISBN 08176-4304-4
3. Fëichtinger and Strohmer, *Gabor Analysis and Algorithms*. ISBN 0-8176-3959-4

4. Gröchenig, *Foundations of Time-Frequency Analysis*.
ISBN 0-8176-4022-3
5. Herman and Kuba, *Discrete Tomography*.
ISBN 0-8176-4101-7
6. Tealis, *Computational Signal Analysis with Wavelets*.
ISBN 0-8176-3909-8
7. Walnut, *An Introduction to Wavelet Analysis*.
ISBN 0-8176-3962-4
8. Debnath, *Wavelets and Signal Processing*.
ISBN 0-8176-4235-8

C. Book Series on Applied and Numerical Harmonic Analysis

There is also the Book Series of Applied and Numerical Harmonic Analysis edited by John J. Benedetto, and many of our STSIP editors are on the editorial advisory board.

NOW ACCEPTING ADVERTISEMENTS

Sample Ad

THE GIBBS PHENOMENON IN FOURIER ANALYSIS, SPLINES, AND WAVELET APPROXIMATIONS

by **Abdul J. Jerri**, *Clarkson University, Potsdam, NY, USA*

KLUWER ACADEMIC PUBLISHERS - MATHEMATICS AND ITS APPLICATIONS 446

This is the first book dedicated to covering the basic elements of the Gibbs phenomenon as it appears in various applications where functions with jump discontinuities are represented. It is presented with detailed analysis and illustrations combined with historical information. The author covers the appearance of the Gibbs phenomenon in Fourier analysis, orthogonal expansions, integral transforms, splines, wavelet approximations, and interpolation approximation of the DFT. Methods of reducing, or filtering out, such phenomena that cover all the above function representations are also addressed. The book includes a thorough bibliography of some 350 references.

Audience: The work is intended as an introduction for engineering and scientific practitioners in the fields where this phenomenon may appear in their use of various function representations. It may also be used by qualified students.

Contents: Preface. Aim of the Book. **1.** Introduction. **2.** Analysis and Filtering. **3.** The General Orthogonal Expansions. **4.** Splines and Other Approximations. **5.** The Wavelet Representations. References. Appendix **A.** Index of Notions. Subject Index. Author Index. - 1998, 364 pp. Hardbound, ISBN 0-7923-5109-6, USD 240.00

To Order: Send your order to your supplier or:

Fax: +31 (0) 78 657 64 74

US: +1 781 871-6528

Tel: +31 (0) 78 657 60 00

US: +1 781 871-6600

E-mail: orderdept@wkap.nl

US: kluwer@wkap.com

Kluwer Academic Publishers

Order Department, P.O. Box 322

3300 AH Dordrecht, The Netherlands