SAMPLING THEORY: BEYOND BANDLIMITED SYSTEMS BY YONINA C. ELDAR
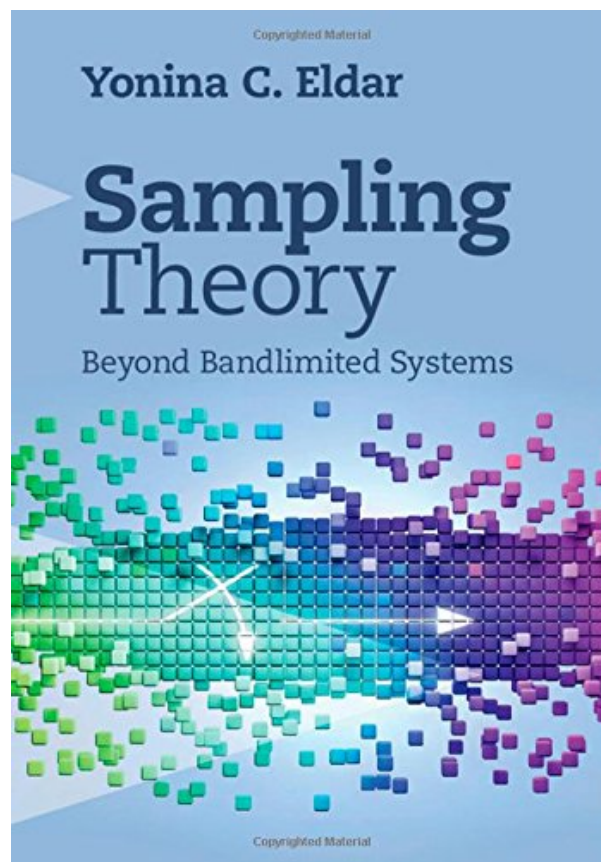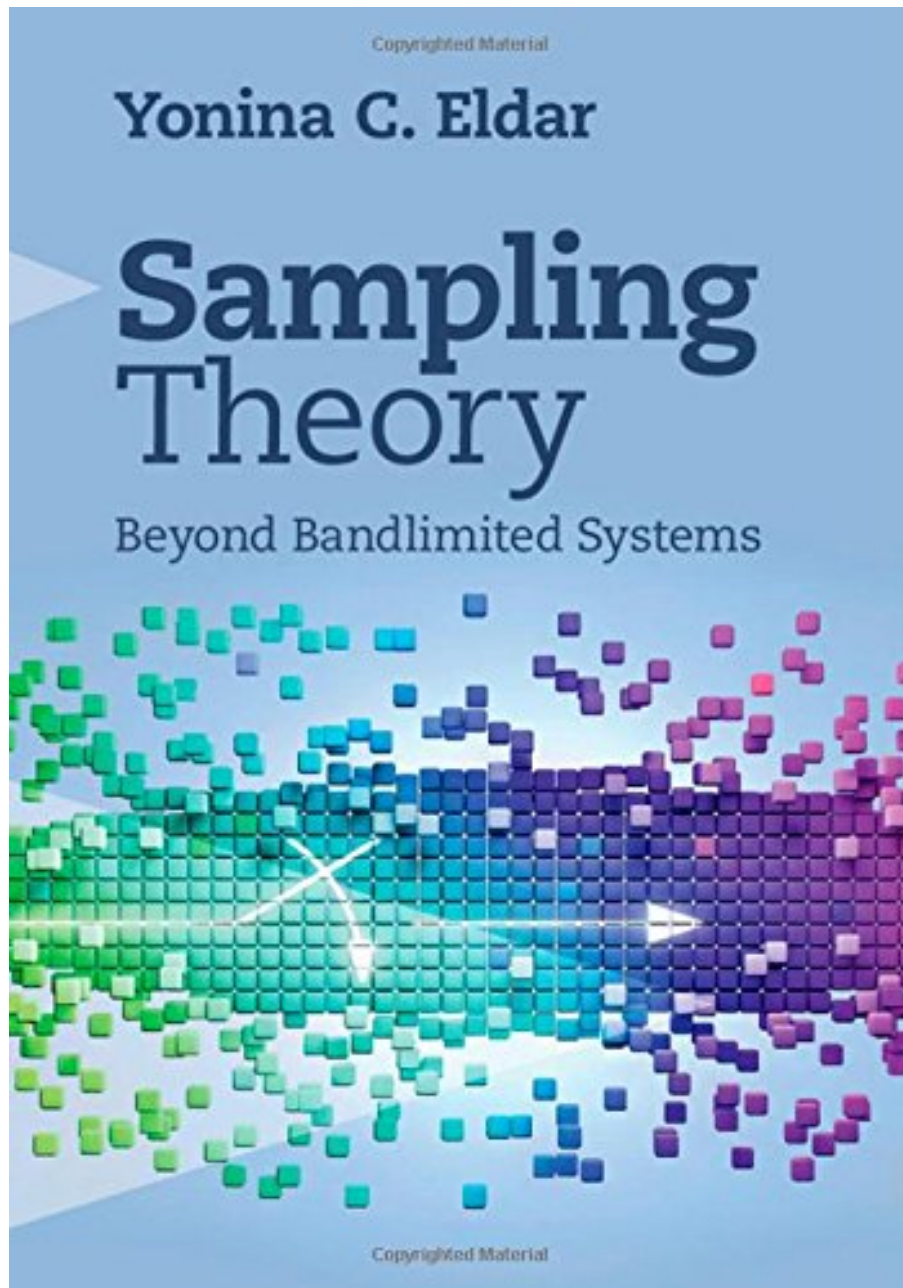

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Review
"I must say that this is really a unique book on sampling theory. The introduction of vector space terminology right from the beginning is a great idea. Starting from classical sampling, the book goes all the way to the most recent breakthroughs including compressive sensing, union-of-subspace setting, and the CoSamp algorithm. Eldar has the right combination of mathematics and practical sense, and she has very good command of the 'art of writing'. This, combined with the archival nature of the topic (which has seen seven decades of history), makes the book an invaluable addition to the Cambridge collection of advanced texts in signal processing."
P. P. Vaidyanathan, California Institute of Technology

"The observation that a bandlimited signal is completely specified by uniform sampling at Nyquist rate might well go back to Cauchy, and the idea of approaching signal recovery as parameter estimation certainly goes back to the 1950s. These ideas provided the theoretical foundation for digitization of telephone networks and in turn the challenge of digital communication inspired new developments in signal analysis. Today new applications from A/D conversion to medical imaging are inspiring a new sampling theory and this book takes us to terra incognita beyond bandlimited systems."
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About the Author
Yonina C. Eldar is a Professor in the Department of Electrical Engineering at the Technion - Israel Institute of Technology (holding the Edwards Chair in Engineering), a Research Affiliate with the Research Laboratory of Electronics at the Massachusetts Institute of Technology and a Visiting Professor at Stanford University. She has received numerous awards for excellence in research and teaching, including the Wolf Foundation Krill Prize for Excellence in Scientific Research, the Hershel Rich Innovation Award, the Michael Bruno Memorial Award from the Rothschild Foundation, the Weismann Prize for Exact Sciences, and the Muriel and David Jacknow Award for Excellence in Teaching. She is the Editor in Chief of Foundations and Trends in Signal Processing and an Associate Editor for several journals in the areas of signal processing and mathematics. She is a Signal Processing Distinguished Lecturer, an IEEE Fellow, a

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Covering the fundamental mathematical underpinnings together with key principles and applications, this book provides a comprehensive guide to the theory and practice of sampling from an engineering perspective. Beginning with traditional ideas such as uniform sampling in shift-invariant spaces and working through to the more recent fields of compressed sensing and sub-Nyquist sampling, the key concepts are addressed in a unified and coherent way. Emphasis is given to applications in signal processing and communications, as well as hardware considerations, throughout. With 200 worked examples and over 200 end-of-chapter problems, this is an ideal course textbook for senior undergraduate and graduate students. It is also an invaluable reference or self-study guide for engineers and students across industry and academia.

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