Palle E.T. Jorgensen

Analysis and Probability
Wavelets, Signals, Fractals

With graphics by Brian Treadway
58 figures and illustrations

Springer

Palle E.T. Jorgensen
Mathematics Department
The University of Iowa
Iowa City, IA 52242
USA
jorgen@math.uiowa.edu

Mathematics Subject Classification (2000): 41A15, 42C20, 42A16, 42A65, 43A65, 46L55, 47C15, 60J15, 94A11

Library of Congress Control Number: 2006921447

ISBN-10: 0-387-29519-4 e-ISBN: 0-387-33082-8
ISBN-13: 978-0-387-29519-0

Printed on acid-free paper.

9 8 7 6 5 4 3 2 1

springer.com

Contents

Drawing by the author, next page:
Wavelet algorithms are good for vast sets of numbers.
An engineering friend described the old approach to data mining as
"Just drop a computer down onto a gigantic set of unstructured numbers!"
*(*data mining: *see Section 6.2, pp. 102–105, and the Glossary, pp. xxiv–xxv).*