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Ellis LabROSA,  
Columbia University,  
New York October 28,



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formal tools of signal processing emerged in the mid 20th

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The text is organized

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important aspects of  
cell signaling, ranging  
from prokaryotic  
signal transduction to  
neuronal signaling,  
and also highlights  
the clinical aspects of  
cell signaling in health  
and disease. This

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engineering students  
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and computer  
programming. The  
focus of this text is on  
what can be  
considered the  
"golden trio" in the  
signal processing  
field: averaging,  
Fourier analysis, and

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the mathematical  
background of the  
analysis to the  
practical application of  
processing  
algorithms. Overall,  
the approach to the  
mathematics is  
informal with a focus  
on basic  
understanding of the  
methods and their  
interrelationships  
rather than detailed

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proofs or derivations. One of the principle goals is to provide the reader with the background required to understand the principles of commercially available analyses software, and to allow him/her to construct his/her own analysis tools in an environment such as

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implementation,  
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signal processing for  
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topics are covered in  
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processing, model-  
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communication is a  
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electrical engineering  
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and computer  
science, yet the  
concepts have  
remained elusive for  
students who are not  
specialists in the area.  
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receiver algorithms for  
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broadly accessible to  
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engineers. Notably,  
the book builds on a  
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foundation and does  
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background,  
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perspective, focusing  
on the complex pulse  
amplitude modulation  
approach used in  
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describes specific  
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communication links,  
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offset estimation,  
channel estimation,  
and equalization.

While most concepts  
are presented for  
systems with single  
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antennas, Heath  
concludes by  
extending those  
concepts to  
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systems. To promote  
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frequency offset  
Frequency selective  
channel estimation  
and equalization  
MIMO techniques  
using multiple  
transmit and/or  
receive antennas,  
including SIMO,  
MISO, and MIMO-

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Cell Signaling  
presents the  
principles and  
components that  
underlie all known

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needed to make  
sense of the dizzying  
array of pathways  
used by the cell to  
communicate. By  
emphasizing the  
common design  
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logic that drives all  
signa

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science, and DSP  
courses. An ftp site  
containing  
supplementary  
material such as wave  
files, MATLAB  
programs and

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workspaces for the students to solve some of the numerical problems and computer exercises in the book can be found at [ftp://ftp.wiley.com/public/sci\\_tech\\_med/audio\\_signal](ftp://ftp.wiley.com/public/sci_tech_med/audio_signal)

Recent advances in genomic studies have stimulated synergetic research and

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development in many cross-disciplinary areas. Processing the vast genomic data, especially the recent large-scale microarray gene expression data, to reveal the complex biological functionality, represents enormous challenges to signal processing and statistics. This

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perspective naturally  
leads to a new field,  
genomic signal  
processing (GSP),  
which studies the  
processing of  
genomic signals by  
integrating the theory  
of signal processing  
and statistics. Written  
by an international,  
interdisciplinary team  
of authors, this  
invaluable edited

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The Molecular  
Mechanisms Of  
Signal  
Transduction

volume is accessible to students just entering this emergent field, and to researchers, both in academia and in industry, in the fields of molecular biology, engineering, statistics, and signal processing. The book provides tutorial-level overviews and addresses the specific

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needs of genomic  
signal processing  
students and  
researchers as a  
reference book. The  
book aims to address  
current genomic  
challenges by  
exploiting potential  
synergies between  
genomics, signal  
processing, and  
statistics, with special  
emphasis on signal

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processing and  
statistical tools for  
structural and  
functional  
understanding of  
genomic data. The  
first part of this book  
provides a brief  
history of genomic  
research and a  
background  
introduction from both  
biological and signal-  
processing/statistical

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perspectives, so that readers can easily follow the material presented in the rest of the book. In what follows, overviews of state-of-the-art techniques are provided. We start with a chapter on sequence analysis, and follow with chapters on feature selection,



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classification, and  
clustering of  
microarray data. We  
then discuss the  
modeling, analysis,  
and simulation of  
biological regulatory  
networks, especially  
gene regulatory  
networks based on  
Boolean and  
Bayesian approaches.  
Visualization and  
compression of gene

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data, and  
supercomputer  
implementation of  
genomic signal  
processing systems  
are also treated.  
Finally, we discuss  
systems biology and  
medical applications  
of genomic research  
as well as the future  
trends in genomic  
signal processing and  
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