

Information Technology: Transmission, Processing, and Storage

*Multi-Carrier  
Digital  
Communications  
Theory and  
Applications of  
OFDM*

Ahmad R. S. Bahai  
and  
Burton R. Saltzberg

SPRINT 1020

Multi-Carrier  
Digital Communications  
Theory and Applications of OFDM

## Information Technology: Transmission, Processing, and Storage

Series Editor: Jack Keil Wolf  
*University of California at San Diego*  
*La Jolla, California*

Editorial Board: James E. Mazo  
*Bell Laboratories, Lucent Technologies*  
*Murray Hill, New Jersey*

John Proakis  
*Northeastern University*  
*Boston, Massachusetts*

William H. Tranter  
*Virginia Polytechnic Institute and State University*  
*Blacksburg, Virginia*

---

Multi-Carrier Digital Communications: Theory and Applications of OFDM  
Ahmad R. S. Bahai and Burton R. Saltzberg

Principles of Digital Transmission: With Wireless Applications  
Sergio Benedetto and Ezio Biglieri

Simulation of Communication Systems, 2nd Edition: Methodology, Modeling,  
and Techniques  
Michel C. Jeruchim, Philip Balaban, and K. Sam Shanmugan

---

A Continuation Order Plan is available for this series. A continuation order will bring delivery of each new volume immediately upon publication. Volumes are billed only upon actual shipment. For further information please contact the publisher.

Multi-Carrier  
Digital Communications  
Theory and Applications of OFDM

Ahmad R. S. Bahai and  
Burton R. Saltzberg

*Algorex, Inc.  
Iselin, New Jersey*

Kluwer Academic Publishers  
New York, Boston, Dordrecht, London, Moscow

eBook ISBN: 0-306-46974-X  
Print ISBN: 0-306-46296-6

©2002 Kluwer Academic Publishers  
New York, Boston, Dordrecht, London, Moscow

Print ©1999 Kluwer Academic / Plenum Publishers  
New York

All rights reserved

No part of this eBook may be reproduced or transmitted in any form or by any means, electronic, mechanical, recording, or otherwise, without written consent from the Publisher

Created in the United States of America

Visit Kluwer Online at: <http://kluweronline.com>  
and Kluwer's eBookstore at: <http://ebooks.kluweronline.com>

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.