Ones and Zeros

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

IEEE Press Understanding Science & Technology Series

The IEEE Press Understanding Series treats important topics in science and technology in a simple and easy-to-understand manner. Designed expressly for the nonspecialist engineer, scientist, or technician, as well as the technologically curious—each volume stresses practical information over mathematical theorems and complicated derivations.

Books in the Series

Blyler, J. and Ray, G., *What's Size Got to Do With It? Understanding Computer Rightsizing*

Deutsch, S., *Understanding the Nervous System: An Engineering Perspective*

Evans, B., *Understanding Digital TV: The Route to HDTV*

Gregg, J., *Ones and Zeros: Understanding Boolean Algebra, Digital Circuits, and the Logic of Sets*

Hecht, J., *Understanding Lasers: An Entry-Level Guide,* 2nd Edition

Kamm, L., *Understanding Electro-Mechanical Engineering: An Introduction to Mechatronics*

Kartalopoulos, S. V., *Understanding Neural Networks and Fuzzy Logic: Basic Concepts and Applications*

Lebow, I., *Understanding Digital Transmission and Recording*

Nellist, J. G., *Understanding Telecommunications and Lightwave Systems,* 2nd Edition

Sigfried, S., *Understanding Object-Oriented Software Engineering*

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

ONES AND ZEROS

Understanding Boolean Algebra, Digital Circuits, and the Logic of Sets

John Gregg

IEEE Press Understanding Science & Technology Series
Dr. Mohamed E. El-Hawary, *Series Editor*

IEEE
The Institute of Electrical and Electronics Engineers, Inc., New York

WILEY-INTERSCIENCE
A JOHN WILEY & SONS, INC., PUBLICATION

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

IEEE Press
445 Hoes Lane, P.O. Box 1331
Piscataway, NJ 08855-1331

IEEE Press Editorial Board
Roger F. Hoyt, *Editor in Chief*

J. B. Anderson	S. Furui	P. Laplante
P. M. Anderson	A. H. Haddad	M. Padgett
M. Eden	R. Herrick	W. D. Reeve
M. E. El-Hawary	S. Kartalopoulos	G. Zobrist
	D. Kirk	

Kenneth Moore, *Director of IEEE Press*
John Griffin, *Senior Acquisitions Editor*
Linda Matarazzo, *Assistant Editor*
Denise Phillip, *Associate Production Editor*

Cover design: Caryl Silvers, *Silvers Design*

Technical Reviewers

Sherif Embabi, *Texas A&M University*
Stam Kartalopoulos, *Lucent Technologies, Bell Labs Innovations*
Richard S. Muller, *University of California, Berkeley*
Kevin D. Taylor, *Purdue University at Kokomo*
Neal S. Widmer, *Purdue University, EET Department*

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

To Susan, without whom this book would have been finished a lot sooner.

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

DOCKET ALARM

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.