

1. Record Nr.	UNINA9910143569003321
Autore	Rossetti Nazzareno <1951->
Titolo	Managing power electronics : VLSI and DSP-driven computer systems / / Nazzareno Rossetti
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , c2006 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2005]
ISBN	1-280-28701-2 9786610287017 0-470-24390-2 0-471-77633-5 0-471-77629-7
Edizione	[1st edition]
Descrizione fisica	1 online resource (405 p.)
Disciplina	621.381/044 621.381044
Soggetti	Integrated circuits - Very large scale integration Semiconductors Signal processing - Digital techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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Sommario/riassunto

A unique system focus that presents specific solutions for specific appliances This publication presents state-of-the-art power management techniques for modern electronic appliances that rely on such very large-scale integration (VLSI) chips as CPUs and DSPs. The author thoroughly covers all aspects of the field, including semiconductor manufacturing processes, packages, circuits, functions, and systems. A unique and significant contribution to the field, the publication adopts a "system focus" by first presenting the appliance and then delving into the power management architecture and topologies that best serve each appliance. In addition to specific techniques and applications, the publication discusses fundamental physical and socioeconomic issues. For example, the author examines Moore's law and its effect on power management and heat dissipation, which points to a future breakthrough needed to continue the fast pace of advancement in the high-tech industry. The author provides a solid technical foundation and an analysis of popular electronic appliances, including: * Overview of the semiconductor industry * Plain-English discussion of semiconductor processes and packages * Step-by-step guide to analog design building from the transistor to higher-level functions, leading to the implementation of a complete voltage regulator * Popular DC-DC voltage regulation architectures * AC-DC architectures for power conversion * Ultra-portable devices, such as cellular phones, PDAs, and digital still cameras * Desktop and notebook PCs The publication concludes with a chapter on special power management topics and an expert forecast of future directions for the

field. This is essential reading for researchers, engineers, and designers in the semiconductor and integrated circuits industries. With its extensive use of cross-section drawings as well as transistor circuit schematics, this is also a recommended textbook for advanced undergraduate and graduate courses in computer science and electrical engineering.

2. Record Nr.	UNINA9910785239903321
Autore	Martin Gary J.
Titolo	Ethnobotany : a methods manual / / Gary J. Martin
Pubbl/distr/stampa	London ; ; Sterling, Va. : , : Earthscan, , 2004
ISBN	1-136-53620-5 1-136-53621-3 1-282-78922-8 9786612789229 1-84977-585-0
Descrizione fisica	1 online resource (293 p.)
Collana	People and Plants Conservation Series
Disciplina	581.6/3
Soggetti	Ethnobotany - Methodology Ethnobotany
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Originally published by Chapman & Hall in 1995"--T.p. verso. Reprinted 2007.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Ethnobotany A Methods Manual; Copyright; Contents; The 'People and Plants' Initiative; International panel of advisers; Internal panel of advisers; Foreword; Preface; Introduction; 1 Data collection and hypothesis testing; 1.1 Choosing an approach; 1.2 Six disciplines which contribute to an ethnobotanical study; 1.3 Rapid ethnobotanical appraisal; 1.4 Planning a long-term project; 1.5 Describing the field site; 1.6 Ethnobotanical data; 1.7 Visual aids; 1.8 The law of diminishing returns; 1.9 Hypothesis testing and theory; 2 Botany; 2.1 Collecting and identifying plants 2.2 Preparing an ethnobotanical reference collection 2.3 Herbaria and

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Sommario/riassunto

Ethnobotany, the study of the classification, use and management of plants by people, draws on a range of disciplines, including natural and social sciences, to show how conservation of plants and of local knowledge about them can be achieved. Ethnobotany is critical to the growing importance of developing new crops and products such as drugs from traditional plants. This book is the basic introduction to the field, showing how botany, anthropology, ecology, economics and linguistics are all employed in the techniques and methods involved. It explains data collection and hypothesis testing and