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Autore	Rossetti Nazzareno <1951->
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Nota di contenuto	Foreword -- Preface -- 1. Introduction -- 1.1 Technology Landscape -- 1.2 A Young Industry after All -- 2. Power Management Technologies -- 2.1 Introduction -- 2.2 Integrated Circuits Power Technology: Processing and Packaging -- Diodes and Bipolar Transistors -- Metal-Oxide-Semiconductor (MOS) Transistors -- DMOS Transistors -- CMOS Transistors -- Passive Components -- A Monolithic Process Example -- Packaging -- 2.3 Discrete Power Technology: Processing and Packaging -- From Wall to Board -- Power MOSFET Technology Basics -- Package Technologies -- 2.4 Ongoing Trends -- 3. Circuits -- PART I. ANALOG CIRCUITS -- 3.1 Transistors -- NPN -- PNP -- Trans-Conductance -- Transistor as Transfer- Resistor -- Transistor Equations -- MOS versus Bipolar Transistors -- 3.2 Elementary Circuits -- Current Mirror -- Current Source -- Differential Input Stage -- Differential to Single Input Stage -- Buffer -- 3.3 Operational Amplifier (Opamp) -- Inverting and Non-Inverting

Inputs -- Rail to Rail Output Operation -- CMOS Opamp -- Opamp Symbol and Configurations -- DC Open Loop Gain -- AC Open Loop Gain -- 3.4 Voltage Reference -- Positive TC of V_{BE} -- Negative TC of V_{BE} -- Build a V_{BE} -- Building a Voltage Reference -- Fractional Band-Gap Voltage Reference -- 3.5 Voltage Regulator -- 3.6 Linear versus Switching -- 3.7 Switching Regulators -- 3.8 Buck Converters -- Switching Regulator Power Train -- Output Capacitor -- Electrolytic Capacitors and Transient Response -- Ceramic Capacitors -- Losses in the Power Train -- The Analog Modulator -- Driver -- Switching Regulator Block Diagram -- Switching Regulator Control Loop -- Input Filter -- Input Inductor LIN -- Input Capacitor -- Current Mode -- 3.9 Flyback Converters -- PART II. DIGITAL CIRCUITS -- 3.10 Logic Functions -- NAND Gate -- Set-Reset R Flip-Flop -- Current Mode with Anti-Bouncing Flip-Flop -- 4. DC-DC Conversion Architectures -- 4.1 Valley Control Architecture -- Peak and Valley Control Architectures -- Transient Response of Each System. Valley Control with FAN5093 -- Conclusion -- 4.2 Monolithic Buck Converter -- A New Design Methodology for Faster Time to Market The Design Cycle -- The FAN5301 -- The Behavioral Model -- Light Load Operation -- Full Load Operation -- Over-Current -- One Shot -- Comparator -- Results -- Timing -- Conclusion -- 4.3 Active Clamp -- Introduction -- Application -- Test Results -- Comments -- 4.4 Battery Charging Techniques: New Solutions for Notebook Battery Chargers -- High Efficiency -- The Smart Battery System -- Data Conversion -- Fast Charge -- Battery Charger System -- 4.5 Digital Power -- Control Algorithm of Modern Switching Regulators: Analog or Digital? -- Fast Switch mode Regulators and Digital Control -- 5. Offline (AC-DC) Architectures -- 5.1 Offline Power Architectures -- Introduction -- Offline Control -- PFC Architecture -- DC-DC Conversion Down to Low Voltage -- Future Trends -- 5.2 Power AC Adapter: Thermal and Electrical Design -- Introduction: The Challenge -- AC Adapter Power Dissipation -- AC Adapter Case Temperature -- Active and No-load Operation -- Development of a Solution -- Conclusion -- 6. Power Management of Ultraportable Devices -- 6.1 Power Management of Wireless Computing and Communications Devices -- The Wireless Landscape -- Power Management Technologies for Wireless -- Cellular Telephones -- Wireless Handheld -- Charge -- Protection and Fuel Gauging -- Convergence of Cellular Telephone and Handheld -- Future Architectures -- 6.2 Power Management in Wireless Telephones: Subsystem Design Requirements -- Smart Phone Subsystems -- Display Board -- Keypad Board -- Main Board -- Battery Pack -- AC Adapter -- 6.3 Powering Feature-Rich Handsets -- Growing Complexity and Shrinking Cycle Time -- Power Management Unit -- Low Dropouts (LDOs) -- 6.4 More on Power Management Units in Cell Phones -- Barriers to Up-Integration -- PMU Building Blocks -- CPU Regulator -- Low Dropout Block -- The Microcontroller -- The Microcontroller Die -- Processing Requirements. Microcontroller-Driven Illumination System -- 6.5 Color Displays and Cameras Increase Demand on Power Sources and Management -- Digital Still Camera -- Camera Phones -- Power Minimization -- Untethered Operation -- 7. Computing and Communications Systems. 7.1 Power Management of Desktop and Notebook Computers -- Power Management System Solution for a Pentium III Desktop System -- Power Management System Solution for Pentium IV Systems (Desktop and Notebook) -- Desktop Systems -- Powering the Silver Box -- Notebook Systems -- Future Power Trends -- 7.2 Computing and Data Communications Converge at the Point of Load -- The Proliferation of Power Supplies -- Telecom Power Distribution -- Computing Power

Distribution -- Multiphase Buck Converter for POLs and VRMs --
 Conclusion -- 7.3 Efficient Power Management ICs Tailored for DDR-
 SDRAM Memories -- Introduction -- DDR Power Management
 Architecture -- Worst Case Current Consumption -- Average Power
 Consumption -- Transient Operation -- Standby Operation -- Linear
 versus Switching -- Second Generation DDR-DDR2 -- FAN5236 for
 DDR and DDR2 Memories -- Future Trends -- 7.4 Power Management
 of Digital Set-Top Boxes -- Set-Top Box Architecture -- Power
 Management -- High Power Set-Top Boxes -- Low Power Set-Top
 Boxes -- Conclusion -- 7.5 Power Conversion for the Data
 Communications Market -- Introduction -- Current Environment with
 Separate Networks -- Migration to Converged Voice/Data/Video IP --
 Telecom -48 V DC Power Distribution -- Datacom AC Power
 Distribution -- Conclusion -- 8. Future Directions and Special Topics
 -- 8.1 Beyond Productivity and Toys: Designing ICs for the Health Care
 Market -- 8.2 Power Management Protocols Help Save Energy -- ACPI
 -- Motherboard (DC-DC) Voltage Regulators -- Offline (AC-DC)
 Voltage Regulators with Power -- Factor Correction (PFC) -- Green
 Power (Energy Management) -- New Low Power System Requirements
 -- Conclusion -- 8.3 Heat Disposal in Electronics Applications --
 Active versus Passive Cooling -- Limits of Passive Cooling -- Active
 Cooling -- Active Cooling-Yes or No? -- Active Cooling Implementation
 -- 8.4 Web Based Design Tools -- The Tools on the Web -- 8.5 Motor
 Drivers for Portable Electronic Appliances -- Introduction -- Camera
 Basics -- Motors and Motor Drivers -- Driving Implementation --
 Efficiency -- DSC Power Consumption -- Conclusion -- Appendix A.
 Fairchild Specifications for FAN5093 -- Appendix B. Fairchild
 Specifications for FAN4803 -- Appendix C. Fairchild Specifications for
 FSD210 and FSD200 -- Appendix D. Fairchild Specifications for
 FAN5307 -- Appendix E. Fairchild Specifications for ACE1502 --
 Appendix F. Fairchild Specifications for FAN5236 -- Appendix G.
 Fairchild Specifications for FAN8702 -- Glossary -- Further Reading --
 Index.

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.

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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

the curation of plant specimens; 2.4 Judging the completeness of a plant survey; 3 Ethnopharmacology and related fields; 3.1 Proceeding with a phytochemical analysis; 3.2 Screening; 3.3 Collecting plants for phytochemical analysis; 3.4 The ethics of searching for new plant products; 3.5 Bringing phytochemistry back home; 4 Anthropology; 4.1 Talking with local people; 4.2 Searching for ethnobotanical information in folklore; 4.3 Surveys and analytical tools; 5 Ecology
5.1 Describing microenvironments and quantifying their plant resources
5.2 Qualitative approaches; 5.3 Bridging the gap between qualitative and quantitative approaches; 5.4 Quantitative approaches; 6 Economics; 6.1 Economics and ethnobotany; 6.2 The value of the environment; 6.3 The value of forest products; 6.4 Surveys of community and household economy; 6.5 Local markets; 7 Linguistics; 7.1 Learning a local language; 7.2 Colaborating with linguists; 7.3 Where there is no linguist; 7.4 Transcribing the local language; 7.5 Linguistic analysis in ethnobotany; 7.6 Free listing
7.7 Systematic surveys of local plant knowledge
7.8 Categories of ethnobiological classification; 7.9 The correspondence between folk and scientific classification; 8 Ethnobotany, conservation and community development; 8.1 Applying traditional ecological knowledge; 8.2 Ethnobotanical research and community development; 8.3 Forests; 8.4 Conservation of wild crop relatives and endangered useful plants; 8.5 Education; 8.6 Use of protected areas; 8.7 The local perspective on ethnobotanical research; 8.8 The path ahead; References; Further reading; Index

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
