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Autore	Barsukov Yevgen
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Nota di contenuto	Battery Power Management for Portable Devices; Contents; Preface; Acknowledgments; Foreword; 1 Battery Chemistry Fundamentals and Chara; 1.1 Introduction; 1.2 Battery Fundamentals and Electrical ; 1.3 General Battery Characteristics ; 1.3.1 Chemical Capacity and Energy; 1.3.2 Battery Impedance; 1.3.3 Usable Capacity; 1.3.4 Power Capability and the Ragone PI; 1.3.5 Durability, Cycle Life, and Shelf-; 1.3.6 Self-Discharge Properties; 1.4 Monitoring and Safety; 1.5 Overview of Different Battery Techno; 1.5.1 Lead Acid; 1.5.2 Nickel Cadmium ; 1.5.3 Nickel Metal-Hydride; 1.5.4 Lithium Ion Battery. 1.5.5 Battery Chemistries OverviewReferences; 2 Battery Charger Techniques; 2.1 Lead-Acid Battery Charger; 2.2 NiCd and NiMH Battery Charger; 2.2.1 Nickel-Based Battery Charge Charac; 2.2.2 NiMH Battery Charger Design Examl; 2.3 Li-Ion and Li-Polymer Battery Charge; 2.3.1 Li-Ion and Li-Polymer Charge Chara; 2.3.2 Charge Temperature Q.
Sommario/riassunto	The introduction of Li-ion batteries in 1991 created a tremendous change in the handheld devices landscape. Since then, the energy stored and put to use in palm-sized electronic devices has quadrupled. Devices are continuously getting more power hungry, outpacing battery development. Written by leading engineers in the field, This cutting-

edge resource helps you overcome this challenge, offering you an insightful overview and in-depth guide to the many varied areas of battery power management for portable devices. You find the latest details on optimizing charging circuits, developing battery.
