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Nota di contenuto	Contents; Preface; Acknowledgments; An Additional Acknowledgment; Editor; Authors; Acronyms; Chapter 1 Motivation for a Parts Selection and Management Program; 1.1 Technology advances; 1.2 Market challenges; 1.3 Supply chain trends; 1.4 Availability and life cycle mismatch issues; 1.5 Standards reorganization; 1.6 Objectives of a parts selection and management program; 1.7 References; Chapter 2 Methodology for Parts Selection and Management; 2.1 Responsibilities and composition of the parts management team; 2.2 The overall parts selection and management methodology 2.3 Product requirements and constraints identification2.4 Technology sensing and cascading; 2.5 Candidate part and part manufacturer selection; 2.6 Manufacturer, part, and distributor assessments; 2.7 Determination of the local environment; 2.8 Performance assessment; 2.9 Reliability assessment; 2.10 Assembly assessment; 2.11 Life cycle

mismatch assessment; 2.12 Risk management; 2.13 References; Chapter 3 Product Requirements, Constraints, and Specifications; 3.1 Product requirements definition and realization constraints; 3.2 Who defines the requirements and constraints?
3.3 Requirements and constraints definition risks3.4 The requirements document; 3.5 Approving requirements and constraints - buy-in; 3.6 Preliminary specification; 3.7 Requirements tracking; 3.8 Summary; 3.9 References; Chapter 4 Using the Part Datasheet; 4.1 The contents of a datasheet; 4.2 The status of the part and datasheet; 4.3 The part number; 4.4 Ratings of an electronic part; 4.5 Reliability information; 4.6 Thermal characteristics; 4.7 Electrical specifications; 4.8 Derating and safe operating area; 4.9 Summary; 4.10 References
Chapter 5 Candidate Parts Selection: Making the First Cut5.1 Candidate part identification process; 5.2 Part databases; 5.3 Part procurement; 5.4 Summary; 5.5 References; Chapter 6 Manufacturer Assessment Procedure and Criteria; 6.1 Manufacturer assessment process; 6.2 Manufacturer identification; 6.3 Manufacturer assessment categories; 6.4 Results; 6.5 Summary; 6.6 References; Chapter 7 Part Assessment Guidelines and Criteria; 7.1 Part assessment process; 7.2 Part grouping; 7.3 Part assessment categories; 7.4 Case study results; 7.5 Summary; 7.6 References
Chapter 8 Electronic Part Distribution and Distributor Assessment8.1 Why part manufacturers use distributors; 8.2 Why customers buy from distributors; 8.3 Types of electronic parts distributors; 8.4 Distributor identification for assessment; 8.5 Distributor assessment; 8.6 Summary; 8.7 References; Chapter 9 Tracking Part Changes Through the Part Supply Chain; 9.1 Introduction; 9.2 Manufacturers change control; 9.3 Standards and authorities for notifying customers of part changes; 9.4 Change notification paths; 9.5 Case study: Change notification policies in practice
9.6 Case study: Examples of commonly made changes

Sommario/riassunto

Increase profitability and reduce risk through effective parts selection and managementCorporations recognize that technology can be the key to fueling product design and development. But just as crucial-if not more-to a company's success are the decisions about when, what, and how a technology will be used. Few companies have failed because the right technology was not available; many have failed when a technology was not effectively selected and managed.Parts Selection and Management is a guide to increasing company profitability and reducing the time-to-profit through the ef