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6.7 PROGRAMMABLE LOGIC DEVICES; 6.8 FIELD PROGRAMMABLE GATE ARRAYS; 6.9 ANALOG-TO-DIGITAL CONVERSION; 6.10 DIFFERENT TYPES OF ANALOG-TO-DIGITAL CONVERTER; CHAPTER 7 - Power supplies; 7.1 GENERAL; 7.2 INPUT AND OUTPUT PARAMETERS; 7.3 ABNORMAL CONDITIONS; 7.4 MECHANICAL REQUIREMENTS; 7.5 BATTERIES; 7.6 ADVANCED CIRCUIT PROTECTION; CHAPTER 8 - Electromagnetic compatibility; 8.1 THE NEED FOR EMC; 8.2 EMC LEGISLATION AND STANDARDS; 8.3 INTERFERENCE COUPLING MECHANISMS; 8.4 CIRCUIT DESIGN AND LAYOUT; 8.5 SHIELDING; 8.6 FILTERING; 8.7 CABLES AND CONNECTORS; 8.8 EMC DESIGN CHECKLIST CHAPTER 9 - General product design; 9.1 SAFETY; 9.2 DESIGN FOR PRODUCTION; 9.3 TESTABILITY; 9.4 RELIABILITY; 9.5 THERMAL MANAGEMENT; Appendix: Standards; British standards; IEC standards; IEEE standards; Bibliography; Index

Sommario/riassunto

A compendium of practical advice and pointers - a unique masterclass in practical product design that bridges the gap between theory and implementation. An invaluable companion for circuit designers and practicing electronics engineers - gives best practices, design guidelines and engineering knowledge gleaned from years of experience. Includes practical, real-world considerations for components, PCBs, manufacturability, reliability and cost, enabling engineers to design and troubleshoot faster, cheaper and more effectively. Contains new materia
