



Demystifying mixed-signal test methods [

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Electronic books

Monografía

Mixed Signal Test Methods Demystified is a less theoretical, less mathematical, and more applications-oriented approach than other books available on the topic. In effect, this book will give readers a "just in time" understanding of the essentials of mixed signal testing techniques. Emphasis will be on commonly used devices and systems (such as PLLs and DSP) that engineers encounter in their daily tasks. Sampling theory is covered in detail, as this is the foundation for understanding all mixed signal testing technique, and readers will have a strong intuitive grasp of this topic after fini

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Título: Demystifying mixed-signal test methods electronic resource] Mark Baker

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Mención de serie: Demystifying technology series

Nota general: Description based upon print version of record

Contenido: 2.3 Decibel Calculations 2.4 Signal Analysis and Test Methods; 2.5 DC Test Outline; 2.6 Time Domain Tests; 2.7 Frequency Domain Tests; Chapter Review Questions; CHAPTER 3. Signal Generation; 3.1 Introduction; 3.2 Signal Source Hardware; 3.3 Application Example; 3.4 Signal Data Sets; 3.5 Periodic Sample Sets; 3.6 Creating the Signal Data Set; 3.7 DSP's Law; 3.8 Samples per Cycle; 3.9 The Golden Ratio; 3.10 Application of DSP's Law; 3.11 Sine (X) over X; 3.12 Source Filters; 3.13 Source Filter Optimization; Chapter Review Questions; CHAPTER 4. Signal Capture; 4.1 Introduction 5.8 Signal Aliasing Chapter Review Questions; CHAPTER 6. DSP Based Testing; 6.1 Introduction; 6.2 DSP Algorithm Structure; 6.3 Math Operations; 6.4 Data Type Conversions; 6.5 Signal Analysis Algorithms; 6.6 DSP Measurement Applications; 6.7 FFT Algorithms; 6.8 Harmonic Distortion Test Sequence; CHAPTER 7. Section; 7.1 Introduction; 7.2 DAC Overview; 7.3 DC Test Overview; 7.4 Linearity Test Overview; 7.5 AC Test Overview; 7.6 Dynamic Performance Tests; Chapter Review Questions; CHAPTER 8. Testing Analog-to-Digital Converters; 8.1 Introduction; 8.2 ADC Overview; 8.3 DC Test Overview 8.4 Linearity Test Overview 8.5 Missing Codes; 8.6 The Histogram Test Method; 8.7 AC Test Overview; Chapter Review

Questions; CHAPTER 9. Test Circuit Design Considerations; 9.1 Printed Circuit Board Physics; 9.2 Resistor Physics; 9.3 Capacitor Physics; 9.4 Circuit Board Insulators and Guard Rings; 9.5 Test Circuit Ground; 9.6 Power Distribution; 9.7 Transmission Lines; 9.8 Transmission Line Matching; Chapter Review Questions; Glossary

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