

1. Record Nr.	UNINA9910816696803321
Autore	Morgan Matthew A.
Titolo	Reflectionless filters // Matthew A. Morgan
Pubbl/distr/stampa	Norwood : , : Artech House, , 2017 [Piscataway, New Jersey] : , : IEEE Xplore, , [2017]
ISBN	1-5231-1756-7 1-63081-405-9
Descrizione fisica	1 online resource (258 pages) : illustrations
Collana	Artech House microwave library
Disciplina	621.3813224
Soggetti	Microwave filters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	6.3 Chebyshev Type II Reflectionless Filters.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Preface; Chapter 1; 1.1 Two-Port Networks; 1.2 Properties of Immittance and Transfer Functions; 1.2.1 The Laplace Frequency Domain; 1.2.2 Immittance Functions; 1.2.3 Transfer Functions; 1.3 Duality; 1.4 Filter Transfer Functions; 1.4.1 Pole-Zero Configuration; 1.4.2 Butterworth Filter Response; 1.4.3 Chebyshev Type I Filter Response; 1.4.4 Chebyshev Type II Filter Response; 1.4.5 Elliptic Filter Response; 1.4.6 Group Delay; 1.5 Conventional Filter Topologies; 1.5.1 Frequency Transformations; 1.6 Even- and Odd-Mode Analysis; 1.7 Transmission Lines. 1.7.1 The Telegrapher's Equations and Wave Solutions1.7.2 The Standard Transmission-Line Model; 1.7.3 Special Cases; 1.7.4 Impedance and Scattering Parameters; 1.7.5 Coupled Transmission Lines; Chapter 2; 2.1 Diplexers; 2.2 Directional Filters; 2.3 Hybrid-Coupled Filters; 2.4 Empirical Approaches; 2.4.1 Damped Resonators; 2.4.2 Absorptive Gaussian Filters; 2.4.3 Absorptive Transmission-Line Equalizers; 2.5 Constant-Resistance Networks; 2.5.1 Topologies; 2.5.2 Realizability; 2.5.3 Chebyshev Type I Example; 2.5.4 Higher-Order Solutions; Chapter 3; 3.1 Basic Filter Derivation; 3.1.1 Methodology. 3.1.2 Procedure3.1.3 Performance; 3.1.4 Third-Order Case; 3.2 Normalized Element Scaling; 3.2.1 Stop-Band Specification ($s = 1$); 3.2.2 Pass-Band 3 dB Corner Specification ($3\text{dB} = 1$); 3.2.3 Pass-Band 1 dB Corner Specification ($1\text{dB} = 1$); 3.2.4 Pass-Band Ripple Factor Specification (); 3.3 Nonuniqueness; 3.4 Auxiliary Components; 3.5

Frequency Transformations; 3.6 Design Example; 3.6.1 Monolithic Implementation; 3.6.2 Experimental Results; 3.7 The Problem of Discovering New Topologies; 3.7.1 Nonuniqueness of Dual Networks; 3.7.2 Nontrivial Equivalent Circuits; Chapter 4. 4.1 The Reflectionless Filter as a Diplexer; 4.2 Subnetworks; 4.2.1 Internal Subnetwork Analysis; 4.2.2 Subnetwork Attenuator; 4.2.3 Cross-Connected Subnetwork Analysis; 4.3 Compound Reflectionless Filters; 4.3.1 Third-Rank Compound Filter; 4.3.2 Design Example; 4.4 Combination Filters; 4.4.1 Second-Rank Filter with Subnetwork Attenuator; 4.4.2 Second-Rank Filter with Auxiliary Elements; 4.4.3 Reflectionless Notch Filters; 4.5 Cascade Combinations; 4.5.1 Cascaded High-/Low-Order Low-Pass Filters; 4.5.2 Cascaded High-/Low-Frequency Low-Pass Filters. 4.5.3 Cascaded High-/Low-Pass Ultrawideband Filters; 4.5.4 Predistortion Filters; 4.5.5 Slope Equalizers; Chapter 5; 5.1 Dual Reflectionless Filter Network; 5.1.1 Properties of Dual Multiport Networks; 5.1.2 Derivation; 5.1.3 Alternative Derivation; 5.2 Compound Filter Reduction; 5.3 Layout Considerations; 5.3.1 Monolithic Versions; 5.3.2 Discrete-Element Versions; Chapter 6; 6.1 ReEvaluation of Prior Topologies; 6.1.1 Compound High-Pass Filters; 6.1.2 Clues in the Pole-Zero Configuration; 6.2 Generalized Compound Topologies; 6.2.1 Seventh-Order Derivation; 6.2.2 Customized Responses.

Sommario/riassunto

This invaluable resource introduces progressive techniques for the creation of sophisticated reflectionless filter topologies that have identically zero reflection coefficient at all frequencies. Practical implementations are discussed along with their advantages when compared to classical absorptive filters and their benefits in real-world systems such as up/down converters, multiplier chains, broadband amplifiers, analog-to-digital converters, and time-domain applications. This book offers insight into the innovative process of developing reflectionless filters from first principles using both lumped elements and transmission lines. Tools for the creation of reflectionless multiplexers, matched sloped equalizers, and advanced, high-order, and nonplanar topologies are also presented.

2. Record Nr.	UNINA9910808995803321
Autore	Weick Karl E.
Titolo	Managing the unexpected : sustained performance in a complex world // Karl E. Weick, Kathleen M. Sutcliffe
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2015 ©2015
ISBN	1-5231-3064-4 1-118-86249-X 1-119-17583-6 1-118-86245-7
Edizione	[Third edition.]
Descrizione fisica	1 online resource (225 pages)
Disciplina	658.4/056
Soggetti	Crisis management Leadership Industrial management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Managing the Unexpected: Sustained Performance in a Complex World; Contents; Preface; Acknowledgments; Chapter 1: Mismanaging the Unexpected; Washington Mutual Mismanages the Unexpected; Overview of Washington Mutual Bank Failure; Problems in Mindful Organizing at WaMu; Preoccupation with Failure; Reluctance to Simplify; Sensitivity to Operations; Commitment to Resilience; Deference to Expertise; What Do We Learn from the WaMu Case?; Conclusion; Overview of Subsequent Chapters; Chapter 2: The Infrastructure of Mindful Organizing; Overview of the Collapse and Recovery; The Unexpected and the Expected Sensemaking; Organizing and Collective Sensemaking; Adaptive Managing; A Concluding Assessment; Chapter 3: Principle 1: Preoccupation with Failure; Components of Preoccupation with Failure; Anomaly; Cues of Evolving Failure; Normalizing; Institutionalized Wariness; Doubt as a Mind-Set; Connotations of Preoccupation with Failure; The Mind-Set for Preoccupation with Failure; Practicing a Preoccupation with Failure; Articulate Expectations; Create Awareness

of Vulnerability; Actively Track down Bad News; Clarify What Constitutes Good News; Consolidate Your Explanations; A Near Miss Is a Failure; Preoccupation as Strategy; Chapter 4: Principle 2: Reluctance to Simplify; Organizing More Variety into Processes; Organizing for Sense-Discrediting; Organizing for Action-Based Inquiry; Mind-Set for Reluctance; Practicing a Reluctance to Simplify; Forget Some Names; Think and Question out Loud; Develop Skeptics; Seek Requisite Variety; Put a Premium on Interpersonal Skills; Revise Assessments as Evidence Changes; Chapter 5: Principle 3: Sensitivity to Operations; Operations as an Anchoring in the Present; Ignorance; Casualness; Distraction; Operations as an Integrated Map; Operations as Heedful Interrelating; Operations as Events under Pressure; Operations as Recurring Events; The Mind-Set for Sensitivity to Operations; Practicing a Sensitivity to Operations; Be Guided by Actionable Questions; Cultivate Situated Humility; Encourage People to Simulate Their Work Mentally; Make Yourself Physically and Socially Available; Reward Contact with the Front Line; Speak Up; Bring Unique Knowledge to the Surface; Chapter 6: Principle 4: Commitment to Resilience; Anticipation and Resilience; Elasticity and Recovery; Resilience in the Air Traffic System: United Airlines 232What Do We Learn about Resilience from UA 232?; Mind-Set for Commitment to Resilience; Practicing a Commitment to Resilience; Adopt a Mind-Set of Cure Rather Than Prevention; Enlarge Competencies and Response Repertoires; Don't Overdo Lean Ideals; Accelerate Feedback; Treat Your Past Experience with Ambivalence; Chapter 7: Principle 5: Deference to Expertise; Background; Properties of Deference to Expertise; Refinements; Expertise Resembles the Role of Reliability Professionals; Mind-Set for Deference to Expertise; Practicing Deference to Expertise

Sommario/riassunto

Improve your company's ability to avoid or manage crises Managing the Unexpected, Third Edition is a thoroughly revised text that offers an updated look at the groundbreaking ideas explored in the first and second editions. Revised to reflect events emblematic of the unique challenges that organizations have faced in recent years, including bank failures, intelligence failures, quality failures, and other organizational misfortunes, often sparked by organizational actions, this critical book focuses on why some organizations are better able to sustain high performance in the face of unanticip
