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Edizione	[1st edition]
Descrizione fisica	1 online resource (341 pages)
Collana	Wiley Series in Systems Engineering and Management
Classificazione	TEC008000
Disciplina	620/.00452
Soggetti	Failure analysis (Engineering) System failures (Engineering) Forensic sciences Evidence, Expert
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	What is forensic systems engineering? -- Contracts, specifications, and standards -- Management systems -- Performance management -- The materiality of operations -- Process liability -- Forensic analysis of process liability -- Legal trends to process liability -- Process stability and capability -- Forensic issues in product reliability -- Forensic view of internal control -- Case study : Madelena Airframes Corporation -- Examining serially dependent processes -- Measuring operations -- Stability analysis of dysfunctional processes -- Verification and validation -- Forensic sampling of internal controls -- Forensic analysis of supplier control -- Discovering system nonconformity.
Sommario/riassunto	A systems-level approach to reducing liability through process improvement Forensic Systems Analysis: Evaluating Operations by Discovery presents a systematic framework for uncovering and resolving problematic process failures. Carefully building the causal relationship from process to product, the discussion lays out in significant detail the appropriate and tactical approaches necessary to the pursuit of litigation with respect to corporate operations. Systemic process failures are addressed by flipping process improvement models

to study both improvement and failure, resulting in arguments and methodologies relevant to any product or service industry. Guidance on risk analysis of operations combines evaluation of process control, stability, capability, verification, validation, specification, product reliability, serial dependence, and more, providing a robust framework with which to target large-scale nonconforming products and services. Relevant to anyone involved in business, manufacturing, service, and control, this book: Covers process liability and operations management from both engineering and legal perspectives Offers analyses that present novel uses of traditional engineering methods concerning risk and product quality and reliability Takes a rigorous approach to system tactics and constraints related to product and service operations and identifies dysfunctional processes Offers both prescriptive and descriptive solutions to both the plaintiff and the defendant The global economy has created an environment in which huge production volume, complex data bases, and multiple dispersed suppliers greatly challenge industrial operations. This informative guide provides a practical blueprint for uncovering problematic process failures.
