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the definitive guide to desalination plant operation and maintenance this water environment federation and water reuse association publication describes state of the art operation maintenance and troubleshooting methods for reverse osmosis brackish and seawater desalination plants for municipal water supplies all plant components are discussed in detail from intake and pretreatment to discharge management best practices for maintaining plant equipment are also provided real world examples illustrating the latest technologies and their practical implementation are included throughout this authoritative resource desalination engineering covers source water open and subsurface intakes source water pretreatment chemical conditioning dissolved air flotation clarifiers and granular media membrane and cartridge filters reverse osmosis system operation reverse osmosis system troubleshooting post treatment lime and carbon dioxide calcite conditioning remineralization and disinfection desalination plant discharge management equipment maintenance pumps air blowers motors bearings valves mechanical seals mechanical drives chemical feed systems automatic samplers

the book discusses the activities involved in developing an enterprise continuity program ecp that will cover both business continuity management bcm as well as disaster recovery management drm the creation of quantitative metrics for bcm are discussed as well as several models and methods that correspond to the goals and objectives of the international standards organisation iso technical committee iso tc 292 security and resilience significantly the book contains the results of not only qualitative but also quantitative measures of cyber resilience which for the first time regulates organizations activities on protecting their critical information infrastructure the book discusses the recommendations of the iso 22301 2019 standard security and resilience business continuity management systems requirements for improving the bcm of organizations based on the well known plan do check act pdca model it also discusses the recommendations of the following iso management systems standards that are widely used to support bcm the iso 9001 standard quality management systems iso 14001 environmental management systems iso 31000 risk management iso iec 20000 1 information technology service management

iso iec 27001 information management security systems iso 28000 specification for security management systems for the supply chain asis orm 1 2017 nist sp800 34 nfpa 1600 2019 cobit 2019 resilia itil v4 and mof 4 0 etc the book expands on the best practices of the british business continuity institute s good practice guidelines 2018 edition along with guidance from the disaster recovery institute s professional practices for business continuity management 2017 edition possible methods of conducting ecp projects in the field of bcm are considered in detail based on the practical experience of the author there are examples of risk assessment ra and business impact analysis bia examples of business continuity plans bcp disaster recovery plans drp and relevant bcp drp testing plans this book will be useful to chief information security officers internal and external certified information systems auditors senior managers within companies who are responsible for ensuring business continuity and cyber stability as well as teachers and students of mba s cio and cso programs

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traffic highway and transportation design principles and practical applicationsthis comprehensive textbook clearly explains the many aspects of transportation systems planning design operation and maintenance transportation engineering a practical approach to highway design traffic analysis and systems operations explores key topics including geometric design for roadway alignment traffic demand flow and control and highway and intersection capacity emerging issues such as livable streets automated vehicles and smart cities are also discussed you will get real world case studies that highlight practical applications as well as valuable diagrams and tables that define transportation engineering terms and acronyms coverage includes an introduction to transportation engineering geometric design traffic flow theory traffic control capacity and level of service highway safety transportation demand transportation systems management and operations emerging topics

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