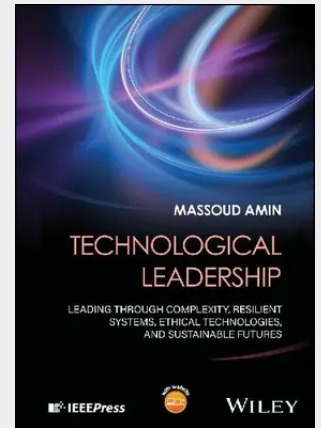


Technological Leadership

Leading Through Complexity, Resilient Systems, Ethical Technologies, and Sustainable Futures

Data-driven strategies for STEM leaders to manage rapid technological change, navigate crises, foster collaboration, and scale innovation Technological Leadership delivers clear, data-driven strategies for managing crises, fostering collaboration, and scaling innovation in STEM-intensive sectors where rapid advancements demand new approaches. The book seamlessly integrates the fields of data, AI, and machine learning to offer guidance on how to lead organizations in a hyper-connected, technology-driven world. Using real-world case studies, this book equips leaders with practical tools for navigating disruption and building resilience, focusing on actionable insights grounded in real examples from digital transformation to global innovation. Technology-intensive industry sectors and business domains referenced include power and energy, computing and information systems, robotics and artificial intelligence, and healthcare and medical devices. The insights in this book are drawn from the author's decades of experience in managing critical infrastructure and global networks. It offers specific, practical frameworks based on lessons learned from over 1,200 projects with a hands-on, systematic toolbox that readers can start using immediately. Technological Leadership discusses additional topics including: - Methods to evaluate emerging technologies and harness predictive analysis and foresight - Financial aspects of innovation and tech that can be used to conduct accurate cost-benefit analyses - Key leadership metrics and the quantitative measurement of execution and adaptation - Resilience, change, and crisis leadership, with specific guidelines to manage rapidly evolving AI and machine learning disruptions - Strategic partnerships that enable organizations to scale innovation globally Technological Leadership is a timely, essential read for engineers, business leaders, and managers in STEM fields as well as executives in technology-driven industries. Policymakers, educators, and students in leadership and technology programs will also benefit greatly from the expert insights contained in this book.

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