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Special Issue Reprint

Systems Methodology in Sustainable Supply Chain Resilience

Edited by: Towfique Rahman and Syed Mithun Ali

In today's volatile and interconnected world, developing resilient and sustainable supply chains has become an essential priority for organizations and societies alike. Global disruptions, ranging from pandemics and geopolitical tensions to climate change and technological transformations, continue to expose vulnerabilities within traditional supply networks. Addressing these challenges requires a systemic perspective—one that recognizes the complexity, interdependence, and dynamic nature of modern supply chains. Experts in systems methodology and supply chain management are increasingly leveraging advanced technologies, data-driven analytics, and innovative management approaches to strengthen resilience while aligning operations with long-term sustainability goals. Systems thinking provides a valuable lens for understanding and managing these interconnected elements, allowing decision-makers to identify leverage points, anticipate cascading effects, and design adaptive, self-regulating systems. This Reprint brings together pioneering research and practical insights that advance the integration of systems methodology into sustainable supply chain resilience. It features contributions that explore new methodologies, frameworks, and analytical tools for managing risk, enhancing flexibility, and promoting circular and low-carbon operations. By bridging theoretical advancements with real-world applications, this Special Issue Reprint showcases how systems-oriented approaches can guide the transition toward more responsible and future-ready supply chains.

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