

Badiru

Flexible Supply Chain

Industrial Engineering Optimization Modeling of the Postal Service System

Communication is the glue that binds the diverse elements of the national economy. A flexible supply chain system creates postal communication agility and adaptability to respond to the changing technologies of the modern era. This book uses a systems-based approach of the tools and techniques of Industrial Engineering applied to a new concept of flexible supply chain systems, patterned after well-known and successful flexible manufacturing systems. It focuses on how Industrial Engineering can be used to achieve flexibility, resiliency, and efficiency in response to the needs of the global postal system. Flexible Supply Chain: Industrial Engineering Optimization Modeling of the Postal Service System provides an understanding of the techniques of using flexibility to improve operations. It capitalizes on a framework of Industrial Engineering and focuses on a global chain of non-commodity products and services. By using flexibility as the foundation for efficiency, it ties in with the digital revolution of communication and retains an affiliation with community involvement. The book uses the DEJI Systems Model and the Triple C Model as a structure of system productivity and creates a template through which other supply chains can be improved. The global supply chain is presently stressed and in need of new ideas and operational strategies. This book is an ideal read for engineers working in manufacturing production, civil, mechanical, and other industries. It will be of interest to engineering managers and consultants as well as those involved with business management. University students and instructors will also find this book useful.



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