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## Handbook of Research on Design and Management of Lean Production Systems

Part of the Advances in Logistics, Operations, and Management Science Book Series

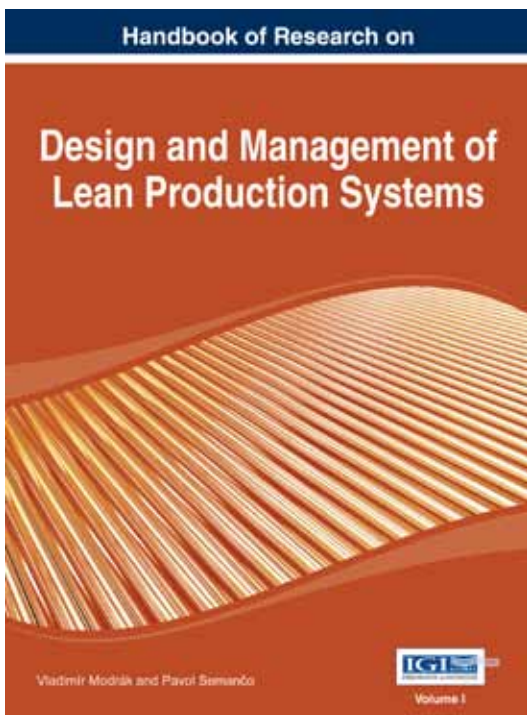
Vladimír Modrák (Technical University of Košice, Slovakia) and  
Pavol Semančo (Technical University of Košice, Slovakia)

In a production environment, batch size is proportional to cost and productivity. Innovative technologies have emerged in lean manufacturing as a way to include a number of elements that emphasizes waste reduction, value enhancement, and high quality results.

**Handbook of Research on Design and Management of Lean Production Systems** explores the recent advancements in the areas of lean production, management, and the system and layout design for manufacturing environments. It also captures the building blocks of lean transformation on a shop floor level. Providing further understanding and ideas of this subject area, this book is an essential reference source for academic researchers as well as managers and practitioners of organizations.

### Topics Covered:

- Practical Applications
- Cell Design
- Cellular Manufacturing
- Lean Manufacturing System Design
- Methods and Tools
- Social Aspects of Lean Manufacturing
- Supply Chain Practices



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**Vladimír Modrák** is a Professor of Manufacturing Technology and Vice-Dean of Faculty of Manufacturing Technologies Technical University of Košice with a seat in Prešov. He obtained a PhD degree in Mechanical Engineering at the same University in 1989. His research interests include Manufacturing Logistics, Cellular Manufacturing and other related disciplines. Professor Modrák is Vice-Editor in Chief of *Slovak Journal on Manufacturing Engineering* and editorial board member of several international journals. He also served as session chair and chairman at International Conferences. He lectured as visiting professor at University of Perugia (Italy), University of Applied Sciences Wildau (Germany), University of Czestochowa (Poland) and held seminars at the Keyworth Institute at the University of Leeds (UK), University of Salerno (Italy) and University of Perugia. Presently, he is also chairmen of the Commission for doctoral study in the field of Industrial Engineering. He is co-author and editor of several books on manufacturing logistics, manufacturing technology and other topics.



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