Foreword

The current conditions provided by a United Europe not only allow for a great mobility of the human resource in Europe, but also a free transfer of technologies, knowledge, and expertise—know-how in general—between people, as well as between education institutions.

In this context, teachers and researchers of some Polish, Romanian, Slovak universities have formed a team that tried—and succeeded to a great extent—to identify some problems the industrial production management and manufacturing cells management are confronted with.

The issue in discussion is based on the newest achievements internationally known in specialised scientific literature, which has allowed an appropriate structuring of the book.

It is worth highlighting the systemic elaboration of the overall book, as well as to independently deal with some subsystems within the general system, which is the book as a whole.

The content of the book is structured on three great problems that form its three independent sections, namely: Elements of Industrial Operational Management; Industrial Production Programming Systems; and Industrial Production Multiserve.

However, the three parts of the book are closely interdependent. This scientific research view is based on two causes: on the one hand, the achievement of the multi-ethnic conception of the paper “Operations Management Research and Cellular Manufacturing: Innovative Methods and Approaches,” coordinated by Vladimir Modrak and R. Sudhakara Pandian, in progress of being published at IGI Global, and on the other hand, it is a matter of interdisciplinary studies performed by teams of professors from departments for economic sciences and industrial production engineering.

In order to elaborate the book, figures, graphs, tables, and economic-mathematical patterns are broadly used. This emphasises the authors’ solid knowledge of the studied field.

It is worth highlighting a few directions of the research performed in this book, namely: industrial company’s systemic approach, independently dealing with basic and auxiliary needs and serving production management; presenting the calculations for the industrial production costs, involving the logistics of industrial production; presenting the most relevant methods for industrial production scheduling; theoretically and practically treating multi-serving as way to improve the industrial production management; highlighting some methods and control systems used in industrial production; etc.

The book may be deemed an achievement in the research field. It addresses students, PhD candidates, scholars, professors, managers, and all who are interested in the problems of the industrial production management within the authors’ countries, as well as in other countries, as the book is elaborated in an international language.
This book can represent a specialised study that may be improved through its own contribution correlated with the assistance of other specialised researches, should we consider the intensity and size of the modern technical-scientific revolution.

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Constantin Oprean graduated from the Romanian Polytechnic Higher Education. He has a PhD degree in Technical Sciences. He had and still has management positions in the Romanian Higher Education System at the “Lucian Blaga” University of Sibiu. This means positions such as Dean, Pro-Rector, Rector, and President of the Senate. He has also managed the Management Board within the Ministry of Education for assigning the PhD title. He has distinguished himself by specialised study in the field of quality management, especially quality management in higher education. He is the PhD Scientific Manager in Technical Sciences.