## SPRINGER BRIEFS IN APPLIED SCIENCES AND TECHNOLOGY

José Roberto Díaz-Reza Jorge Luis García Alcaraz Adrián Salvador Morales García

## Best Practices in Lean Manufacturing A Relational Analysis



**SpringerBriefs in Applied Sciences and Technology**  SpringerBriefs present concise summaries of cutting-edge research and practical applications across a wide spectrum of fields. Featuring compact volumes of 50 to 125 pages, the series covers a range of content from professional to academic.

Typical publications can be:

- A timely report of state-of-the art methods
- An introduction to or a manual for the application of mathematical or computer techniques
- A bridge between new research results, as published in journal articles
- A snapshot of a hot or emerging topic
- An in-depth case study
- A presentation of core concepts that students must understand in order to make independent contributions

SpringerBriefs are characterized by fast, global electronic dissemination, standard publishing contracts, standardized manuscript preparation and formatting guidelines, and expedited production schedules.

On the one hand, **SpringerBriefs in Applied Sciences and Technology** are devoted to the publication of fundamentals and applications within the different classical engineering disciplines as well as in interdisciplinary fields that recently emerged between these areas. On the other hand, as the boundary separating fundamental research and applied technology is more and more dissolving, this series is particularly open to trans-disciplinary topics between fundamental science and engineering.

Indexed by EI-Compendex, SCOPUS and Springerlink.

More information about this series at https://link.springer.com/bookseries/8884

José Roberto Díaz-Reza · Jorge Luis García Alcaraz · Adrián Salvador Morales García

## Best Practices in Lean Manufacturing

A Relational Analysis



José Roberto Díaz-Reza D Universidad Autónoma de Ciudad Juárez Ciudad Juárez, Chihuahua, Mexico

Adrián Salvador Morales García Universidad Autónoma de Ciudad Juárez Ciudad Juárez, Chihuahua, Mexico Jorge Luis García Alcaraz D Universidad Autónoma de Ciudad Juárez Ciudad Juárez, Chihuahua, Mexico

 ISSN 2191-530X
 ISSN 2191-5318
 (electronic)

 SpringerBriefs in Applied Sciences and Technology
 ISBN 978-3-030-97751-1
 ISBN 978-3-030-97752-8
 (eBook)

 https://doi.org/10.1007/978-3-030-97752-8
 ISBN 978-3-030-97752-8
 (eBook)

© The Author(s), under exclusive license to Springer Nature Switzerland AG 2022

This work is subject to copyright. All rights are solely and exclusively licensed by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Switzerland AG The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland