

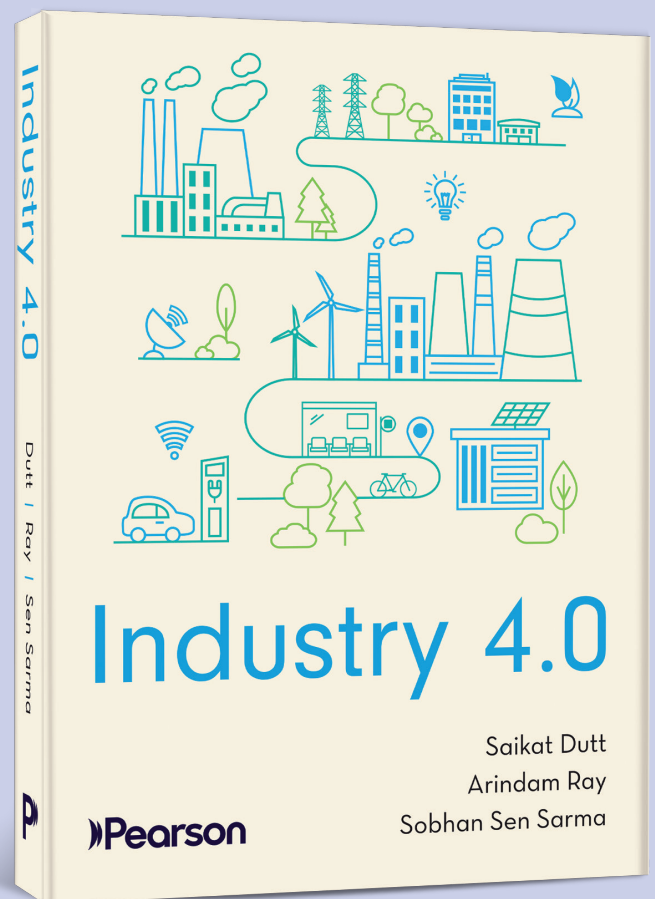
Mastering Industry 4.0: A Practical Guide for Engineers and Professionals

Know the authors

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Salient Features



Real-world case studies and practical use cases to help readers navigate Industry 4.0 implementation



Richly illustrated with examples, diagrams, and photos from modern industries to make concepts easy to understand



Over 400 practice questions, along with a suggested syllabus and teaching plan, to support both students and educators



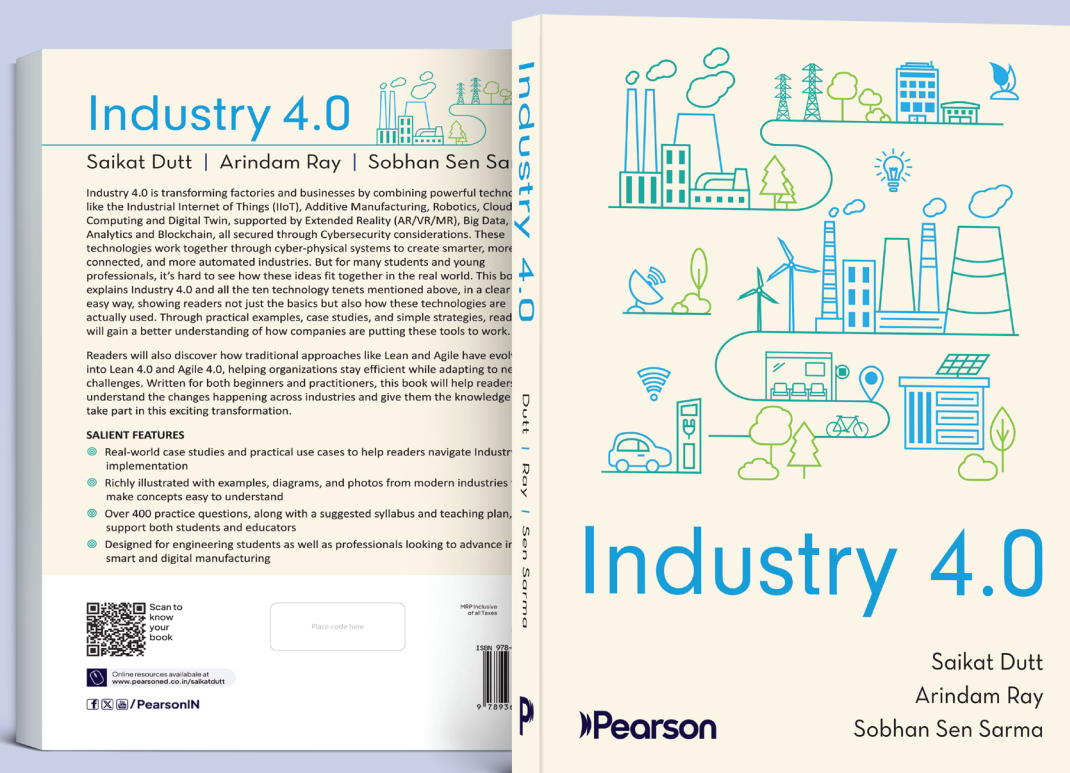
Designed for engineering students as well as professionals looking to advance in smart and digital manufacturing

Content overview

- Chapter 1** Introduction to Industry 4.0
- Chapter 2** Key Tenets of Industry 4.0
- Chapter 3** Lean and Agile Production Methodologies
- Chapter 4** Industrial Internet of Things (IIoT)
- Chapter 5** Industrial Automation and Robotics
- Chapter 6** Additive Manufacturing/3D Printing
- Chapter 7** Augmented Reality, Virtual Reality and Mixed Reality
- Chapter 8** Cloud Computing
- Chapter 9** Big Data
- Chapter 10** Analytics
- Chapter 11** Digital Twins
- Chapter 12** Blockchain
- Chapter 13** Cybersecurity
- Chapter 14** Conclusion: Bringing It All Together and Way Forward

About the book

Industry 4.0 is transforming factories and businesses by combining powerful technologies like the Industrial Internet of Things (IIoT), Additive Manufacturing, Robotics, Cloud Computing and Digital Twin, supported by Extended Reality (AR/VR/MR), Big Data, Analytics and Blockchain. These technologies work together through cyber-physical systems to create smarter, more connected, and more automated industries. But for many students and young professionals, it's hard to see how these ideas fit together in the real world. This book explains Industry 4.0 and all the nine technology tenets mentioned above, in a clear and easy way, showing readers not just the basics but also how these technologies are actually used. Through practical examples, case studies, and simple strategies, readers will gain a better understanding of how companies are putting these tools to work. Readers will also discover how traditional approaches like Lean and Agile have evolved into Lean 4.0 and Agile 4.0, helping organizations stay efficient while adapting to new challenges. Written for both beginners and practitioners, this book will help readers understand the changes happening across industries — and give them the knowledge to take part in this exciting transformation.



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