1. Record Nr. UNINA990000831460403321

Autore	French, A. P.
Titolo	Vibrations and waves / A. P. French
Pubbl/distr/stampa	New York : Norton & Company, 1971
Descrizione fisica	XI, 316 p. ; 24 cm
Collana	The M.I.T. introductory physics series
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Autore	Gajdzik Boena
Titolo	Digital Transformation towards Smart Steel Manufacturing : A Framework for Steel Enterprises in Poland / / by Boena Gajdzik
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Palgrave Macmillan, , 2025
ISBN	9783031777561 9783031777554
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Descrizione fisica	1 online resource (167 pages)
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Soggetti	Digital media Metals Building materials Industries Digital and New Media Steel, Light Metal
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Nota di contenuto	Introduction -- 1. Megatrends in modern industrial transformation -- 2. Trends in steel processes during digital and climate changes -- 3. Polish steel industry in industrial transformation -- 4. Steel transformation towards smart steel manufacturing: direct research in Poland -- 5. Model framework of smart steel transformation -- 6. Summary.
Sommario/riassunto	This book offers a comprehensive exploration of the intersection between digital technologies and the steel industry, specifically in Poland. By combining theoretical insights with direct research, it highlights the impact of Industry 4.0 and 5.0 on steel manufacturing and decarbonisation. It is an essential read for professionals and researchers looking to understand how automation, digitisation, and sustainability are transforming the steel sector globally and regionally. Robert Wolny, University of Economics in Katowice, Poland This book presents the impact of digital transformation and other megatrends on the steel industry, focusing on the digitization of processes, and the automation and robotization of operations in steel companies. Technological innovations in the steel industry are presented, as well as the changes taking place within the supply chains An essential part of the book is the results of direct research, which deal with the transformation of enterprises to smart steel manufacturing. The research was done on the Polish steel market, which is an open market with foreign capital. Exploring a sample of representatives of steel companies that serve both domestic and foreign markets, this book discusses the implementation of the pillars of Industry 4.0 as well as the strategic transformation of the steel industry. Boena Gajdzik is an Associate Professor at the Department of Industrial Informatics at the Silesian University of Technology, Poland. She has been dealing with the economics of business entities, including company management and steel mills. Her output includes 660 publications at national and international publishers, including 30 books about company management and business environment, as well as her monographs about steel industry. Her research is about the restructuring of the Polish steel sector, changes to steel mills in the market in Poland, and now about the transformation of steel industry to Industry 4.0. Scientific interests include economics of business entities, company management, restructuring processes in the steel sector in Poland, changes in the steel industry, competitiveness of steel mills, innovation in steel companies, energy and resources intensity in the steel sector, and smart steel manufacturing. She is ranked in Stanford's Top 2 Scientists list.