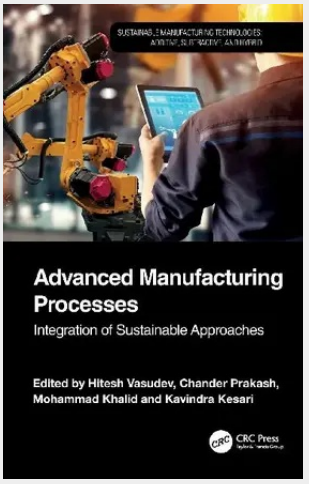
Vasudev / Prakash / Khalid

Advanced Manufacturing Processes

Integration of Sustainable Approaches



The increasing demand for advanced manufacturing processes is making an impact on the Earth's resources, and its industrial practices are producing negative impacts on the environment, such as carbon footprints, energy resources, waste, etc. The trend of advanced manufacturing coincides with the acceleration of innovations in sustainable techniques. Advanced Manufacturing Processes: Integration of Sustainable Approaches focuses on sustainability materials, the 6 Rs (reuse, recycle, redesign, remanufacture, reduce, and recover), lifecycle engineering, and life cycle assessment. It discusses sustainability in manufacturing and the impact on plant performance while keeping in mind IR 4.0, and highlights issues related to materials recovery and a circular economy. The book also presents the use of new sustainable materials in processes and their impact on the environment and plant performance. Case studies are offered to enable the reader to get a comparison of the manufacturing processes based on individual sustainability. All aspects related to the implementation and adoption of sustainable advanced manufacturing approaches are encapsulated in this book along with their applications which makes this a useful book for industry, academic teaching, research scholars, and experts dealing with sustainability-related issues.

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