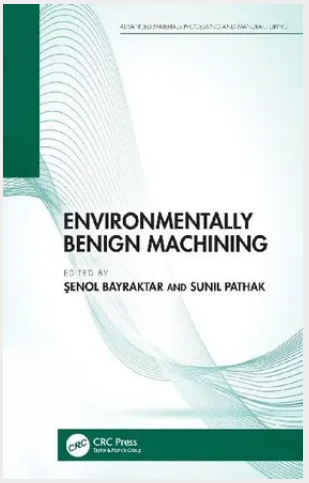
Bayraktar / Pathak

Environmentally Benign Machining



This book provides essential information on environmentally benign/sustainable machining processes including innovations and developments in conventional machining, considering economy, safety, and productivity. Developments in machine tools, recent research on green lubricants and lubrication techniques, process hybridization, and the role of optimization techniques are discussed. Green machining of difficult-to-machine materials and composites is also explained with attempts towards making electric discharge and electrochemical machining technologies. Features: - Covers up to date and latest information on environmentally benign machining technologies. - Includes current approaches regarding the machinability properties of biomaterials, smart materials, and difficult-to-cut materials. - Reviews theoretical understanding and practical aspects of using different technological approaches to attain sustainability in machining. - Includes sustainability aspects for both conventional and modern machining. - Aids industrial users in the optimum selection of machining parameters with regard to sustainability. This book is aimed at researchers and professionals in manufacturing and mechanical engineering, and sustainable processes.

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