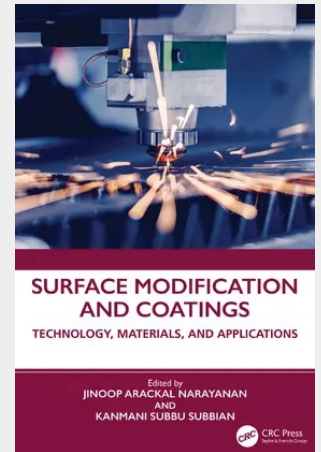


Surface Modification and Coatings

Technology, Materials, and Applications

This book offers an overview of surface engineering, encompassing a diverse array of techniques (in surface modifications and surface coatings), applications, and emerging trends. Further, it provides insights into various materials, applications, process modeling, and optimization strategies. Key themes covered in the book include surface modification and coating techniques, applications, recent advances in materials employed, emerging trends, process modeling and optimization in surface engineering, sustainability, and Industry 4.0 applications. - Provides fundamental understanding of different surface engineering techniques and modernization to attain novel application requirements - Includes recent advances and case studies from academia and industries on the application of surface engineering for repair and remanufacturing - Features modeling, optimization, materials, characterization, process monitoring, and sustainability in surface engineering - Exemplifies surface engineering of additive manufactured components, implants, aerospace parts, cutting tools, and power transmission - Discusses high-power applications in modern surface engineering This book is aimed at graduate students and researchers in surface engineering, materials processing, and advanced manufacturing.



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