



Corrosion Control and Surface Finishing: Environmentally Friendly Approaches

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This book deals with the surface finishing for corrosion prevention from the viewpoint of environmental friendliness. Surface finishing for metallic materials or by metallic materials has excellent corrosion resistance, wear resistance and good color tones, which have been useful for practical applications so far. However, environmental friendliness and user friendliness have become important factors for practical use since the turn of the century. Surface Finishing Industries are now facing a serious crossroad to continue sustainable developments in the future. Sadly, the concept of environmental friendliness is very new, because from the beginning of this discipline (surface finishing), not many people considered the environmental effects so seriously, but sought mainly for the functions, performance, characteristics, and economic profits. Since the biological evaluation processes are very advanced and still debated, this book is very unique and advanced. This book aims to let university students know and learn the concept of environmental friendliness and its relation to surface treatment products based on the fundamental knowledge about conventional corrosion control and surface finishing. The textbook will be used most effectively with subjects such as surface science, surface engineering, mechanical materials, etc. for those studying mechanical engineering, materials engineering and chemical engineering. It is also applicable to practical engineers and researchers in the industrial world as well as the academic one. Throughout this book, readers learn and appreciate the environmentally friendly approaches that are presented for corrosion control and surface finishing.

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From the Back Cover

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