



## Surface Modification by Solid State Processing (Woodhead Publishing in Mechanical Engineering)

*By Rosa M. Miranda, Joao Pedro Gandra, Pedro Vilaca, Luisa Quintino, Telmo G. Santos*

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**Surface Modification by Solid State Processing (Woodhead Publishing in Mechanical Engineering)** By Rosa M. Miranda, Joao Pedro Gandra, Pedro Vilaca, Luisa Quintino, Telmo G. Santos

*Surface Modification by Solid State Processing* describes friction-based surfacing techniques for surface modification to improve resistance to corrosion and wear, also changing surface chemistry.

Surface conditions are increasingly demanding in industrial applications and surface modification can reduce manufacturing and maintenance costs, leading to improved component performance, reliability and lifetime. Friction-based technologies are promising solid state processing technologies, particularly for light alloys, in the manufacturing of composite surface and functionally graded materials

This title is divided into five chapters, and after an introduction the book covers friction surfacing; friction stir processing; surface reinforcements of light alloys; and characterization techniques based on eddy currents.

- Describes friction-based surfacing techniques for surface modification to improve resistance to corrosion and wear, and change surface chemistry
- Emphasizes industrial applications
- Describes existing and emerging techniques

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## **Editorial Review**

### *About the Author*

*Rosa M. Miranda* is Associate Professor with Habilitation in the Mechanical and Industrial Engineering Department, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal, and previously Assessor of the Research and Development Department at the Portuguese Welding and Quality institute, 1982-1999. Rosa is the author of more than 200 publications in Materials processing technologies, welding and materials science.

*Joao Pedro Gandra* is a PhD student in mechanical engineering, researching friction surfacing.

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*Luisa Quintino* is Associate Professor with Habilitation in Welding at the Mechanical Engineering Department of the Lisbon Technical University, and author of more than 250 publications, with particular expertise in welding. Previously Luisa was Vice President of IIW, and Chief Executive of the European Welding Federation.

*Telmo G. Santos* is Assistant Professor at the Mechanical Engineering Department of Nova University, and author of several publications, with particular expertise in non destructive testing and friction stir welding and processing.

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