Future Development of Thermal Spray Coatings

Description:
Future Development of Thermal Spray Coatings discusses the latest developments and research trends in the thermal spray industry. The book presents a timely guide to new applications and techniques. After an introduction to thermal spray coatings by the editor, Part One covers new types and properties of thermal spray coatings. Chapters look at feedstock suspensions and solutions, the application of solution precursor spray techniques to obtain ceramic films and coatings, cold spray techniques and warm spray technology amongst others. Part Two of the book moves on to discuss new applications for thermal spray coatings such as the use of thermal spray coatings in environmental barrier coatings, thermal spray coatings in renewable energy applications and manufacturing engineering in thermal spray technologies by advanced robot systems and process kinematics.

- Timely guide on the current advancements and research trends in thermal spray technology
- Reviews different types of thermal spray coatings
- Presents a wide variety of applications for this emerging technology

Contents:
1 Introduction to thermal spray coatings
Part One Thermal spray coatings: new types and properties
2 Current status and future directions of thermal spray coatings and techniques
3 Feedstock suspensions and solutions
4 Status and future trends in suspension spray techniques
5 Application of solution precursor spray techniques to obtain ceramic films and coatings
6 Future trends in cold spray techniques
7 Current status and future prospects of warm spray technology
8 Functionalized thermal spray coatings
Part Two New applications of thermal spray coatings
9 Thermal spray coatings in environmental barrier coatings (EBC)
10 Thermal spray coatings in renewable energy applications
11 Manufacturing engineering in thermal spray technologies by advanced robot systems and process kinematics

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