



Thermal Spray Fundamentals: From Powder to Part

By Pierre L. Fauchais, Joachim V.R. Heberlein, Maher I. Boulos

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This book provides readers with the fundamentals necessary for understanding thermal spray technology. Coverage includes in-depth discussions of various thermal spray processes, feedstock materials, particle-jet interactions, and associated yet very critical topics: diagnostics, current and emerging applications, surface science, and pre and post-treatment. This book will serve as an invaluable resource as a textbook for graduate courses in the field and as an exhaustive reference for professionals involved in thermal spray technology.

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Editorial Review

From the Back Cover

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This book also:

Provides a complete overview of the relationship between process parameters and coating properties

Covers both the qualitative material of the fundamental physics principles involved, and at the same time provides sufficient quantitative information for prediction of effects of process parameter changes

Includes the latest thermal spray technology developments, including new d.c. plasma and wire arc spray torch developments, r.f. induction plasma spraying, combustion based spray technologies and cold spray, particle-jet interactions and process diagnostics and on-line control methods as well as a review of current and in-development industrial applications

About the Author

Pierre L. Fauchais is Professor Emeritus at the University of Limoges. Joachim V.R. Heberlein is Professor Emeritus at the University of Minnesota. Maher I. Boulos is Professor Emeritus at the University of Sherbrooke and President and CEO Tekna Plasma System Inc. All three authors are part of the Thermal Spray Hall of Fame.

Users Review

From reader reviews:

Terry Tatum:

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