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Cold Gas Dynamic Spray (Paperback)

By -

Taylor Francis Inc, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book. Your Guide to Advanced Cold Spray Technology Cold Gas Dynamic Spray centers on cold gas dynamic spray (or cold spray-CS) technology, one of the most versatile thermal spray coating methods in materials engineering, and effectively describes and analyzes the main trends and developments behind the spray (coating) techniques. The book combines theory with practice to enable the reader to deeper understand the CS coatings as well as their structures and properties, and describes the state of the art in CS technology with an emphasis on all major components of the cold spray process. This book begins with an introduction to CS spray and goes on to thoroughly explain the process. It describes the different powder synthesis methods and equipment currently used, and defines the CS coating microstructure, characterization methods, and properties of CS coatings. The authors present a comprehensive approach that highlights grit blasting and cold spraying as well as the hybrid CS-sintering technology that offers integrity of microstructure, compositional homogeneity, and mechanical property levels equal to (and frequently better than) those of the wrought counterpart. The book largely covers the basic principles of CS...



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