



Properties and Processing of Vapor-Deposited Coatings: Volume 555

By -

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English Brand New Book ***** Print on Demand *****.This book focuses on advances associated with generating processing-microstructure-property-performance relationships of coatings produced by chemical vapor deposition (CVD) and physical vapor deposition (PVD) methods. Various coating materials and applications are discussed, ranging from producing high-quality diamond coatings to developing large-scale or novel diamond-like carbon (DLC) processes, understanding metal-ceramic interface adhesion behavior in thermal barrier coatings, identifying corrosion-resistant ceramic coating materials for high-temperature structural applications, and preparing polymeric thin films for integrated circuits. Rapid advances in industrial process scale-up and the development of a large-scale DLC coating chamber, based on a novel process concept called plasma ion immersion process, is presented. Progress in understanding the reaction kinetics, particularly gas phase chemistry, of complex CVD processes is noted. Overall, the book clearly shows that vapor-deposited coatings are being actively pursued for diverse technological benefits, and that the coating community is increasingly relying on generating appropriate processing-microstructure-property relationships to guide integrated coating process and product development.



READ ONLINE
[1.69 MB]

Reviews

These kinds of pdf is the greatest ebook readily available. This really is for those who statte that there had not been a worthy of looking at. Your daily life period will be change when you comprehensive looking over this pdf.

-- **Dock Hodkiewicz**

This is the greatest book we have read through till now. It is probably the most amazing book we have go through. I am just happy to tell you that here is the greatest book we have read through during my individual daily life and may be he best ebook for possibly.

-- **Eliseo Leffler**