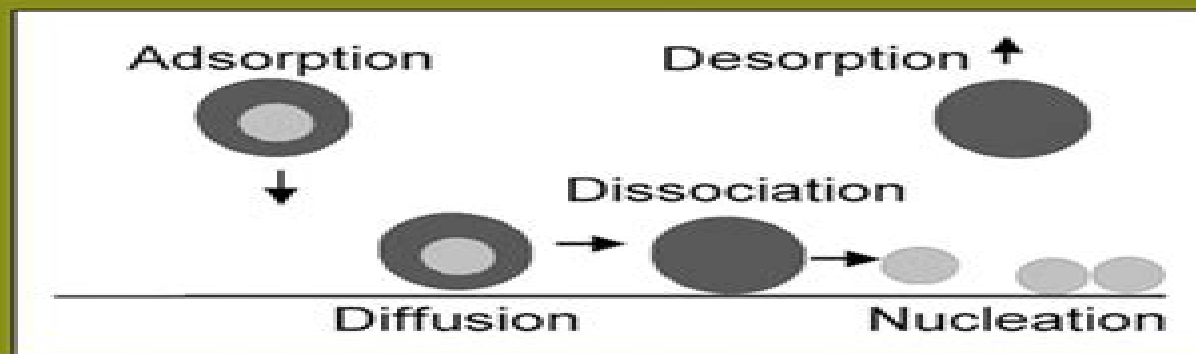


LUMINOUS CHEMICAL VAPOR DEPOSITION and INTERFACE ENGINEERING



Hirotsugu Yasuda

Luminous Chemical Vapor Deposition And Interface Engineering Surfactant Science

HIROTSUGU. YASUDA



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Luminous Chemical Vapor Deposition and Interface Engineering HIROTSUGU. YASUDA, 2020-06-30 Providing in depth coverage of the technologies and various approaches Luminous Chemical Vapor Deposition and Interface Engineering showcases the development and utilization of LCVD procedures in industrial scale applications It offers a wide range of examples case studies and recommendations for clear understanding of this innovative science The book comprises four parts Part 1 describes the fundamental difference between glow discharge of an inert gas and that of an organic vapor from which the concepts of Luminous Gas Phase derive Part 2 explores the various ways of practicing Luminous Vapor Disposition and Treatment depending on the type and nature of substrates Part 3 covers some very important aspects of surface and interface that could not have been seen clearly without results obtained by application of LCVD Part 4 offers some examples of interface engineering that show very unique aspects of LCVD interface engineering in composite materials biomaterial surface and corrosion protection by the environmentally benign process Timely and up to date the book provides broad coverage of the complex relationships involved in the interface between a gas solid liquid solid and a solid solid The author presents a new perspective on low pressure plasma and describes key aspects of the surface and interface that could not be shown without the results obtained by LCVD technologies Features Provides broad coverage of complex relationships involved in interface between a gas solid a liquid solid and a solid solid Addresses the importance of the initial step of creating electrical glow discharge Describes the principles of creating chemically reactive species and their growth in the luminous gas phase Focuses on the nature of surface state of solid and on the creation of imperturbable surface state by the contacting phase or environment which is vitally important in creating biocompatible surface providing super corrosion protection of metals by environmentally benign processes etc Offers examples on how to use LCVD in the interface engineering process Presents a new view on low pressure low temperature plasma and emphasizes the importance of luminous gas phase and chemical reactions that occur in the phase About the author Dr Yasuda is one of the pioneers who explored low pressure plasma for surface modification of materials and deposition of nano films as barrier and perm selective membranes in the late 1960s He obtained his PhD in physical and polymer chemistry working on transport properties of gases and vapors in polymers at State University of New York College of Environmental Science and Forestry at Syracuse NY He has over 300 publications in refereed journals and books and is currently a Professor Emeritus of Chemical Engineering and Director Center for Surface Science Plasma Technology University of Missouri Columbia and is actively engaged in research on the subjects covered by this book [Luminous Chemical Vapor Deposition and Interface Engineering](#) Hirotsugu Yasuda, 2004-11-30 Providing in depth coverage of the technologies and various approaches Luminous Chemical Vapor Deposition and Interface Engineering showcases the development and utilization of LCVD procedures in industrial scale applications It offers a wide range of examples case studies and recommendations for clear understanding of this innovative

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