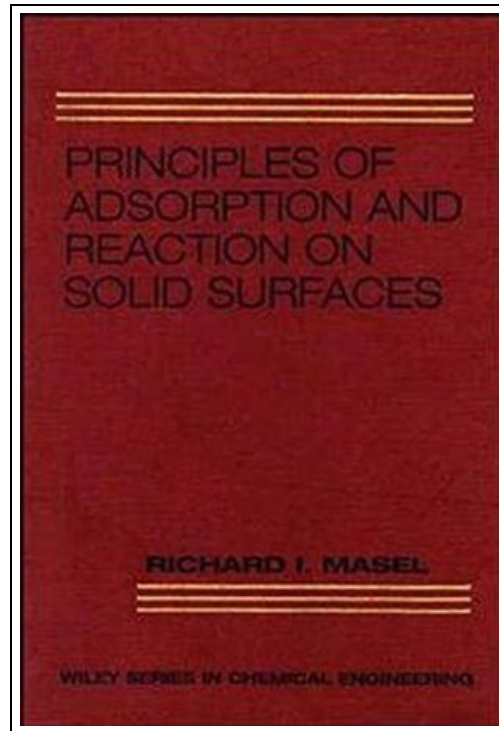


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Reviews

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John Wiley Sons Inc, United States, 1996. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. Principles of Adsorption and Reaction on Solid Surfaces As with other books in the field, Principles of Adsorption and Reaction on Solid Surfaces describes what occurs when gases come in contact with various solid surfaces. But, unlike all the others, it also explains why. While the theory of surface reactions is still under active development, the approach Dr. Richard Masel takes in this book is to outline general principles derived from thermodynamics and reaction rate theory that can be applied to reactions on surfaces, and to indicate ways in which these principles may be applied. The book also provides a comprehensive treatment of the latest quantitative surface modeling techniques with numerous examples of their use in the fields of chemical engineering, physical chemistry, and materials science. A valuable working resource and an excellent graduate-level text, Principles of Adsorption and Reaction on Solid Surfaces provides readers with: • A detailed look at the latest advances in understanding and quantifying reactions on surfaces • In-depth reviews of all crucial background material • 40 solved examples illustrating how the methods apply to catalysis, physical vapor deposition, chemical vapor deposition, electrochemistry, and more • 340 problems and practice exercises • Sample computer programs • Universal plots of many key quantities • Detailed, class-tested derivations to help clarify key results The recent development of quantitative techniques for modeling surface reactions has led to a number of exciting breakthroughs in our understanding of what happens when gases come in contact with solid surfaces. While many books have appeared describing various experimental modeling techniques and the results obtained through their application, until now, there has been no single-volume reference devoted to the fundamental principles governing the processes observed. The...



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