



## Principles of Adsorption and Reaction on Solid Surfaces (Hardback)

By Richard I. Masel

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...

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