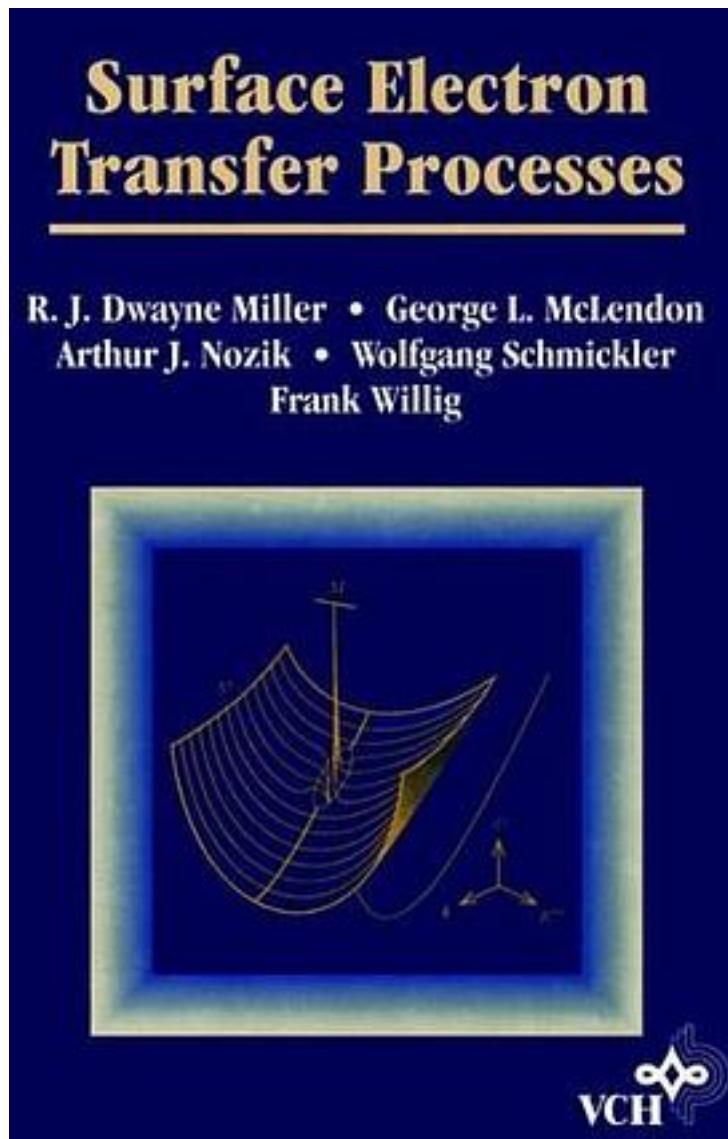


Surface Electron Transfer Processes



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This book gives an extensive theoretical treatment of surface electron transfer processes. The emphasis is on electronic coupling of molecular potentials to conducting band states. The essential role of surface electron transfer in catalysis, electrochemistry, photo imaging, and virtually all charge transfer solid state devices make this process one of the most important single chemical events. The assumptions in the theories will be highlighted and major emphasis will be placed on the unknown nature of the electronic coupling. This latter point is the driving force for current experiments in the area. The chapter on theory will form the cornerstone for the chapters covering experimental findings on surface processes. The book will be written in a fashion so as to be useful as a text book, yet emphasize the challenges that remain ahead in understanding electron tunneling phenomena.

The book is written in a tutorial fashion at a level suitable for graduate students with little background in the area.

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