

Dynamics Of Gas Surface Interactions Advances In Gas Phase Photochemistry And Kinetics 1st Edition

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Dynamics Of Gas Surface Interactions

This book gives a representative survey of the state of the art of research on gas-surface interactions. It provides an overview of the current understanding of gas surface dynamics and, in particular, of the reactive and non-reactive processes of atoms and small molecules at surfaces. Leading scientists in the field, both from the theoretical and the experimental sides, write in this book about their most recent advances.

Dynamics of Gas-Surface Interactions | SpringerLink

Dynamics of Gas-Surface Interactions: Atomic-level Understanding of Scattering Processes at Surfaces (Springer Series in Surface Sciences (50)) 2013th Edition. by Ricardo Diez Muino (Editor), Heriberto Fabio Busnengo (Editor) ISBN-13: 978-3642329548. ISBN-10: 3642329543.

Amazon.com: Dynamics of Gas-Surface Interactions: Atomic ...

Summary This chapter first outlines some of the basic theoretical concepts underlying the dynamics of gas-surface interactions based on the Born-Oppenheimer approximation (BOA). This defines the ga...

Dynamics of Gas-Surface Interactions - Surface and ...

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Dynamics of Gas-Surface Interactions eBook by ...

Dynamics of Gas-Surface Interactions discusses a selection of important topics and provides a balanced picture of the whole field. It is written by experts in the respective subjects and no previous volume has offered such detailed coverage.

Dynamics of Gas-surface Interactions - Google Books

Dynamics of gas-surface interactions: Scattering and desorption of NO from Ag(111) and Pt(111)

Dynamics of gas-surface interactions: Scattering and ...

In the following years the entire subject of gas-surface interaction was considered a branch of rarefied gas dynamics and developed in connection with aerospace research. Attention was then given to the integral properties of gas-solid interactions (sticking and energy accomodation, mean momentum transfer) rather than to atom-surface scatter ing from well-characterized surfaces.

Dynamics of Gas-Surface Interaction | SpringerLink

Energy exchange between the 4-atom "primary zone" and the 464 J.C. Tully I Dynamics of gas-surface interactions remainder of the crystal was incorporated via two additional terms in the equations of motion. The first, a friction integral (with memory), describes dissipation of energy from the primary zone to the rest of the crystal.

Dynamics of gas-surface interactions: Thermal desorption ...

A partial listing of the topics that are being explored in greater detail as a direct result of the new instrumentation includes surface phonon spectroscopy, the dynamics and energetics of heterogeneous interactions, thin film growth including nucleation in two-dimensional systems, gas surface energy transfer interaction potentials, and a ...

Dynamics of gas-surface interactions-instrumentation ...

Dynamics of Gas-Surface Scattering deals with the dynamics of scattering as inferred from known properties of gases and solids. This book discusses measurements of spatial distributions of scattered atomic and molecular streams, and of the energy and momentum which gas particles exchange at solid surfaces.

Dynamics of Gas-Surface Scattering | ScienceDirect

Dynamics of gas-surface interactions : atomic-level understanding of scattering processes at surfaces. -- This book gives a representative survey of the state of the art of research on gas-surface interactions.

Dynamics of gas-surface interactions : atomic-level ...

ISBN: 0851868533 9780851868530: OCLC Number: 24742503: Description: xvi, 366 pages : illustrations : 24 cm: Contents: Mechanical energy transfer in particle-surface collisions / J. Harris --Dynamics of dissociative chemisorption / A.E. Depristo --Quantum effects in gas-solid interactions / S. Holloway --The dynamics of hydrogen adsorption and desorption on copper surfaces / B.E. Hayden ...

Dynamics of gas-surface interactions (Book, 1991 ...

Molecular Dynamics (MD) simulations are used to study the adsorption dynamics of O 2 on Pt(111) for both normal and oblique impacts, whereas Grand Canonical Monte Carlo (GCMC) calculations are employed to study the surface coverage of atomic oxygen on the same platinum surface. Overall, good quantitative agreement with the experimental data is ...

Simulation of gas-surface interactions using ReaxFF ...

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