

**Landolt-Börnstein: Numerical Data and Functional
Relationships in Science and Technology – New Series**

Group III: Condensed Matter

Volume 45B

Landolt-Börnstein

Numerical Data and Functional Relationships
in Science and Technology

New Series

Units and Fundamental Constants in Physics and Chemistry

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Some of the group names have been changed to provide a better description of their contents.

G. Chiarotti • P. Chiaradia
Editors

Physics of Solid Surfaces

Subvolume B

 Springer

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ISSN 1615-1925

ISBN 978-3-662-53906-4

ISBN 978-3-662-53908-8 (eBook)

<https://doi.org/10.1007/978-3-662-53908-8>

Library of Congress Control Number: 2017955702

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The registered company is Springer-Verlag GmbH Germany

The registered company address is: Heidelberger Platz 3, 14197 Berlin, Germany

This volume is dedicated to the memory of Prof. G. Chiarotti, who passed away on the 12th October 2017 at the age of 89, soon after completing this editorial work. In mourning his passing, we recall his commitment and dedication as scientist and teacher, his outstanding legacy in surface science, and celebrate his moral standing and intellectual honesty.

P. Chiaradia (Co-editor), the Authors of LB III/45A and B and the Editorial Staff of Springer Nature

Preface

Nowadays about two decades have elapsed since the publication of Volume III/24 of the Landolt-Börnstein Series, a book presenting the main results obtained in the field of Physics of Solid Surfaces since its birth (~1970) up to mid-1990s. After such a considerable time, the need for updating Volume III/24 was widely recognized. Actually, the issue was not merely to write an update of single chapters of Volume III/24, but also to account for the numerous significant developments appeared in Surface Physics in the last 20 years.

These were the ideas behind the present LB Volume III/45, which maintains the same title of Volume III/24: *Physics of Solid Surfaces*. Volume III/45 consists of 21 contributions (against 17 for Volume III/24), divided in two subvolumes, A and B. About one third of these contributions deal with entirely new topics or methods – some of which are still in a phase of rapid expansion.

As in the case of Volume III/24, emphasis is given to *clean* solid surfaces, without neglecting adsorbatecovered surfaces, when required by a special interest or for the sake of completeness.

Rome, March 2017

The Editors

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