

Landolt-Börnstein

Numerical Data and Functional Relationships in Science and Technology

New Series / Editor in Chief: W. Martienssen

Group VIII: Advanced Materials and Technologies Volume 3

Energy Technologies

Subvolume B: Nuclear Energy

Editor: K. Heinloth

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Springer

ISSN 1619-4802 (Advanced Materials and Technologies)

ISBN 3-540-42891-7 Springer Berlin Heidelberg New York

Library of Congress Cataloging in Publication Data

Zahlenwerte und Funktionen aus Naturwissenschaften und Technik, Neue Serie

Editor in Chief: W. Martienssen

Group VIII, Volume 3: Energy Technologies. Subvolume B: Nuclear Energy.

Edited by K. Heinloth.

At head of title: Landolt-Börnstein. Added t.p.: Numerical data and functional relationships in science and technology.

Tables chiefly in English.

Intended to supersede the Physikalisch-chemische Tabellen by H. Landolt and R. Börnstein of which the 6th ed. began publication in 1950

under title: Zahlenwerte und Funktionen aus Physik, Chemie, Astronomie, Geophysik und Technik.

Vols. published after v. 1 of group I have imprint: Berlin, New York, Springer-Verlag

Includes bibliographies.

1. Physics - Tables. 2. Chemistry - Tables. 3. Engineering - Tables.

I. Börnstein, R. (Richard), 1852-1913. II. Landolt, H. (Hans), 1831-1910.

III. Physikalisch-chemische Tabellen. IV. Title: Numerical data and functional relationships in science and technology.

QC 61.23 502'.12 62-53136

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Printed in Germany

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Cover Layout: Erich Kirchner, Heidelberg

Typesetting: Authors and Dr. Ainas Weber, Bonn

Printing and binding: AZ Druck, Kempten (Allgäu)

SPIN: 1085 7629

63/3020- 5 4 3 2 1 0 – Printed on acid-free paper

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Preface

The three volumes VIII/3A, B, C of Energy Technologies should primarily serve scientists, engineers, and students to get information on physical, chemical and technical properties of all technologies to provide, convert, distribute, store and finally use energy, supplemented with economic background information and with specific concepts to allow the reader a proper comparison of different energy technologies. In this way these volumes on energy technologies should finally be helpful to let the human society pave and walk towards sufficient and environmentally safe provision and use of energy. The various contributions have been written by experts from many countries all around the globe engaged in universities, public research institutions and private industrial companies.

The scope and content of the various chapters are briefly outlined in the introductory chapter 1 of the first volume, VIII/3A. The first volume, Energy Technologies, VIII/3A, covers fossil fuels, storage and transport of electric energy and road-, rail-, ship-, and air-transport technologies. The second volume, Energy Technologies (Nuclear), VIII/3B, covers nuclear fission and fusion. The third volume, Energy Technologies (Renewable), VIII/3C, covers all options of renewable energy including energetic use of waste.

It is a pleasure to acknowledge the competent and careful presentations and the inspiring cooperation of all the various authors of the different contributions in the three volumes and the efficient and accurate work of the editorial staff of Landolt-Börnstein, especially of A. Endemann and Dr. A. Weber.

Bonn, August 2004

The Editor

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