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Volume 12

Supplement 4 (1973, 1974) to Volume 2

Magnetic Properties
of Coordination and Organometallic
Transition Metal Compounds

Subvolume b Electron Paramagnetic Resonance

E. König and G. König

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Springer-Verlag Berlin · Heidelberg · New York · Tokyo 1984

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Gruppe II: Atom- und Molekularphysik

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Ergänzungsband 4 (1973, 1974) zu Band 2

Magnetische Eigenschaften der Koordinations-
und metallorganischen Verbindungen
der Übergangselemente

Teilband b Paramagnetische Elektronenresonanz

E. König und G. König

Herausgeber: K.-H. Hellwege und A.M. Hellwege



Springer-Verlag Berlin · Heidelberg · New York · Tokyo 1984

© Kartellaufnahme der Deutschen Bibliothek
Zahlenwerte und Funktionen aus Naturwissenschaften und Technik Landolt-Börnstein. Berlin, Heidelberg, New York, Tokyo:
Springer, Teilw. mit d. Erscheinungsorten Berlin, Heidelberg, New York. Parallel.: Numerical data and functional relationships
in science and technology.

NE: Landolt, Hans [Begr.]; PT: Landolt-Börnstein, ... N.S. Gesamthrsg.: K.-H. Hellwege; O. Madelung, Gruppe 2, Atom-
und Molekularphysik. Bd. 12, Magnetische Eigenschaften der Koordinations- und metallorganischen Verbindungen der Übergangs-
elemente: Erg.-Bd. 4 (1973, 1974) zu Bd. 2, Teilbd. b, Paramagnetische Elektronenresonanz E. König u. G. König, Hrsg.: K.-H.
Hellwege u. A.M. Hellwege. 1984.

ISBN 3-540-13018-7 Berlin, Heidelberg, New York, Tokyo
ISBN 0-387-13018-7 New York, Heidelberg, Berlin, Tokyo

NL: Hellwege, Karl-Heinz [Hrsg.]; König, Edgar [Mitverf.]

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Printed in Germany

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Typesetting: Universitätsdruckerei H. Stürtz AG, Würzburg; printing: Druckhaus Langen-
scheidt KG, Berlin; bookbinding: Lüderitz & Bauer-GmbH, Berlin

2163/3020-543210

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Vorwort

Band II/12 ist der vierte Ergänzungsband zu Band II/2 „Magnetische Eigenschaften der Koordinationsverbindungen und der metallorganischen Verbindungen“. Er ist nach dem gleichen Konzept aufgebaut und berücksichtigt die Veröffentlichungen über magnetische Suszeptibilitäten und Elektronenspinresonanz in den Jahren 1973 und 1974. Die Daten und die Literatur schließen unmittelbar an die der ersten drei Ergänzungsbände, Band II/8, II/10 und II/11, an.

Wie in den Bänden II/2, II/8, II/10 und II/11 sind außer den obengenannten zusätzlich benachbarte Verbindungen mit aufgenommen worden, um dem Leser Vergleiche zu ermöglichen. Dagegen werden die speziellen Substanzengruppen der Granate, Perowskite, Spinelle und Hexagonalferrite ausführlich in eigenen Bänden, III/4a, b (Literatur bis 1969/70) und deren Ergänzungsbänden, III/12a, b, c (Literatur 1970 bis 1977, 1978 bzw. 1979) behandelt.

Die Daten sind wieder so vollständig wie möglich zusammengestellt und kritisch bearbeitet worden. Das in der Literatur vorhandene Informationsmaterial enthält sowohl funktionelle Abhängigkeiten von äußeren Parametern, die der Untersuchung physikalischer Fragen dienen, als auch Einzelwerte, die z.B. als chemisch-analytische Hilfsmittel gebraucht werden. Beide Gruppen von Daten sind hier berücksichtigt worden.

Aus technischen und zeitlichen Gründen wurde Band II/12 geteilt: der erste, Ende 1983 erschienene Teilband II/12a behandelt die magnetischen Suszeptibilitäten, der hiermit vorgelegte Teilband II/12b die Elektronenspinresonanz.

Die detaillierte Übersicht, die Teilband b vorangestellt ist, zeigt den Inhalt beider Teilbände: die ausführliche Beschreibung der Anordnung der Substanzen zu Beginn des Teilbandes 12a wird dem Leser das Auffinden bestimmter Daten und Substanzen erleichtern.

Dank gebührt in erster Linie den Autoren, sowie dem Verlag für die Herstellung und Veröffentlichung des Bandes. Wie alle Bände des Landolt-Börnstein ist auch dieser ohne finanzielle Unterstützung von anderen Stellen veröffentlicht worden.

Darmstadt, Sommer 1984

Die Herausgeber

Preface

Volume II/12 is the fourth supplement to vol. II/2 "Magnetic Properties of Coordination and Organometallic Transition Metal Compounds". It is based on the same principles and considers the publications on magnetic susceptibilities and electron spin resonance in 1973 and 1974 in direct subsequence to the data and literature of the first three supplements, volumes II/8, II/10, and II/11.

As in volumes II/2, II/8, II/10 and II/11, besides the compounds mentioned above, similar or related substances have been included additionally giving the reader the possibility of comparing the data, while some special groups of substances have been omitted: the information on garnets, perovskites, spinels and hexagonal ferrites is presented separately in volumes III/4a, b (literature up to 1969/70) and its supplements III/12a, b, c (literature 1970 to 1977, 1978, and 1979, respectively).

The data have been compiled again as completely as possible and are evaluated critically. The information available in the original literature contains both series of data serving the investigation of physical problems and single results used for the purpose of chemical analysis. Both kinds of data are considered here.

For technical reasons, volume II/12 has been divided: in the first subvolume II/12a, which appeared in late 1983 the magnetic susceptibilities are treated; the second subvolume, II/12b, presented herewith, covers the electron spin resonance.

The detailed survey which precedes subvolume II/12b shows the contents of both parts; the extensive description of the arrangement of the substances on the first pages of subvolume 12a may help the user to locate individual substances and their data.

Thanks are primarily due to the authors, but also to the publishers for the preparation and publication of this volume. Like all volumes of Landolt-Börnstein, it is published without financial support from other sources.

Darmstadt, summer 1984

The Editors

Magnetic Properties of Coordination and Organometallic Transition Metal Compounds

Subvolume b Electron Paramagnetic Resonance
Teilband b Paramagnetische Elektronenresonanz

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Survey*) of Volume II/12a, b

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Subvolume II/12b (Part 2): Electron paramagnetic resonance

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