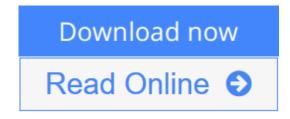


# **Transmission Electron Microscopy: A Textbook for Materials Science**

By David B. Williams, C. Barry Carter



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### Transmission Electron Microscopy: A Textbook for Materials Science By David B. Williams, C. Barry Carter Bibliography

Sales Rank: #1191068 in BooksPublished on: 2012-02-07Original language: English

• Number of items: 1

• Dimensions: 11.25" h x 8.50" w x 1.50" l, 5.40 pounds

• Binding: Hardcover

• 775 pages

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#### **Editorial Review**

Review

From the reviews of the second edition:

"This book is intended to be used as a textbook for material science students studying the theory, operation, and application of the TEM. It is truly a book so thoughtfully written that ... it will provide a solid foundation for those studying material science. It is richly illustrated with full-color figures and illustrations throughout the text. ... There are an abundant number of references at the end of each chapter for further study ... . This is an outstanding book ... ." (IEEE Electrical Insulation Magazine, Vol. 26 (4), July/August, 2010)

"D.B. Williams and C.B. Carter have now prepared a new edition, splendidly produced by Springer with colour throughout. ... This textbook is magnificent, written in a very readable style, immensely knowledgeable, drawing attention to difficulties and occasionally to unsolved problems. Any microscopist who has mastered ... the book relevant to his projects will be well armed for battle. ... Buy this book!" (P. W. Hawkes, Ultramicroscopy, Vol. 110, 2010)

#### From the Back Cover

This groundbreaking text has been established as the market leader throughout the world. Now profusely illustrated with full color figures and diagrams throughout the text, *Transmission Electron Microscopy: A Textbook for Materials Science, Second Edition*, provides the necessary insight and guidance for successful hands-on application of this versatile and powerful materials characterization technique. For this first new edition in 12 years, many sections have been completely rewritten with all others revised and updated. The new edition also includes an extensive collection of questions for the student, providing approximately 800 for self-assessment and over 400 that are suitable for homework assignment.

#### **Key Features:**

- Undisputed market leader, now completely revised and updated
- Ideal for use as a teaching text at the advanced undergraduate and graduate levels and as a hands-on reference for materials scientists
- Explains why a particular technique should be used and how a specific concept can be put into practice
- Nearly 700 figures and diagrams, most in full color

Praise for the first edition:

`The best textbook for this audience available.' - American Scientist

"...highly readable, and an extremely valuable text for all users of the TEM at every level. Treat yourself to a copy!" – **Microscopy and Microanalysis** 

`This book is written in such a comprehensive manner that it is understandable to all people who are trained in physical science and it will be useful both for the expert as well as the student.' – **Micron** 

`The book answers nearly any question - be it instrumental, practical, or theoretical - either directly or with an appropriate reference...This book provides a basic, clear-cut presentation of how transmission electron microscopes should be used and of how this depends specifically on one's specific undergoing project.' – **MRS Bulletin** 

`The only complete text now available which includes all the remarkable advances made in the field of TEM in the past 30-40 years....The authors can be proud of an enormous task, very well done.' – **from the**Foreword by Professor Gareth Thomas, University of California, Berkeley

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