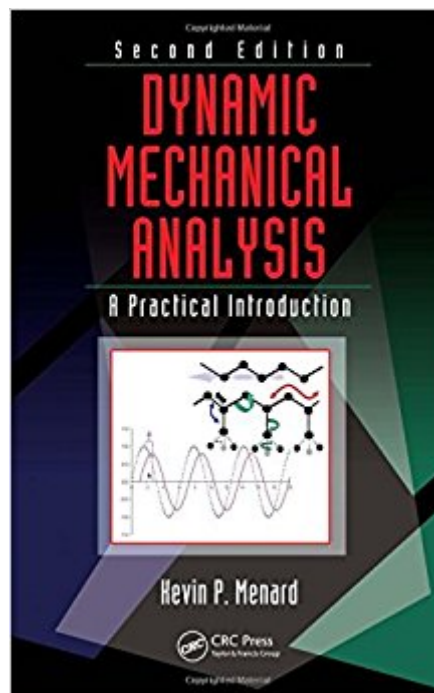




Ebook Directory
the best source of ebook

The book was found

Dynamic Mechanical Analysis: A Practical Introduction, Second Edition



Synopsis

Dynamic mechanical analysis (DMA) has left the domain of the rheologist and has become a prevalent tool in the analytical laboratory. However, information on the use of this important tool is still scattered among a range of books and articles. Novices in the field have to dig through thermal analysis, rheology, and materials texts just to find the basics. Updated with new material, expanded practical explanations, and new applications, *Dynamic Mechanical Analysis, Second Edition* continues to give chemists, engineers, and materials scientists a starting point for applying DMA to their individual fields. It imparts a clear understanding of how DMA works, its advantages, and possible limitations. Additional topics include stress/strain, data handling, experimental technology, test methods, and data analysis. One of the only references dedicated to DMA, this accessible and easy-to-read guide gathers the most pertinent information available on this important technique.

Book Information

Hardcover: 240 pages

Publisher: CRC Press; 2 edition (May 28, 2008)

Language: English

ISBN-10: 1420053124

ISBN-13: 978-1420053128

Product Dimensions: 9.1 x 6.1 x 0.7 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.1 out of 5 stars 8 customer reviews

Best Sellers Rank: #1,341,580 in Books (See Top 100 in Books) #119 in [Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing](#) #194 in [Books > Science & Math > Physics > Nanostructures](#) #399 in [Books > Science & Math > Chemistry > Analytic](#)

Customer Reviews

The author of this book has taught many short courses on DMA and this shows in his book. This reviewer found the last chapter, on the section on the application of DMA to real problems to be very useful. This book should be quite useful to someone who is just beginning to do thermal methods and wants to include DMA among the methods used. -Charles A. Wilkie, Marquette University, Polymer News; it is also a practical book for engineers and scientists already working in industry. --This text refers to an out of print or unavailable edition of this title.

It explains the fundamentals of the test and the difference between the conventional tests and the DMA. It contains various applications for different materials.

I ordered this book based on the other review here on.com and was looking for a bit more. A fair bit of the content is already covered by free application notes on the web and sales literature that the makers of DMA instrumentation pass out for free. If you're looking for a solid treatment of the polymer physics of DMA testing, that's not this book; maybe it hasn't been written yet. If you just want to relate DMA testing to real world environments and effects, then there aren't enough good examples in the book or a method to make this book worth the price. This would make an acceptable guide for a technician who was just introduced to a DMA - I was looking for more.

I spent many hours researching for a Thermal Mechanical textbook that was packed full of "Get Down To The Point Answers". Let's face it, there are not many current Thermal Analysis textbooks for sale. The books I've seen are too scrambled with no understanding at the end. This book was VERY informative, and it answered my questions. Special Thanks to the author. Please write many more books with the same intentions in mind: "We would like to understand and learn from what we read"! Thank You!

I spent many hours researching for a Thermal Mechanical textbook that was packed full of "Get Down To The Point Answers". Let's face it, there are not many current Thermal Analysis textbooks for sale. The books I've seen are too scrambled with no understanding at the end. This book was VERY informative, and it answered my questions. Special Thanks to the author. Please write many more books with the same intentions in mind: "We would like to understand and learn from what we read"! Thank You!

This is a must own book for graduate students in polymer science and is also an excellent introduction to this important materials characterization technique for professionals new to this field. To my knowledge there is not presently another book which discusses this material without a significant excursion into complex variable maths.

I needed to get up to speed on DMA fast and I got what I needed. It didn't provide all the info I required for my specific application (submicron thin films) but it did provide a sound foundation for further investigation. This is truly what it claims to be, a practical introduction, many thanks to the

author.

The clear text will guide my experiment in composites. The DMA technique may be helpful on several materials dynamic-mechanical characterization and this book introduces the why and how to. Good investment to my thesis!

Is a nice, good for beginners, book for those just entering the world of DMA. Helps you understand the basic concepts, and walks you through practical understanding of thermodynamic studies of polymers.

[Download to continue reading...](#)

Dynamic Mechanical Analysis: A Practical Introduction, Second Edition Code Check Plumbing & Mechanical 4th Edition: An Illustrated Guide to the Plumbing and Mechanical Codes (Code Check Plumbing & Mechanical: An Illustrated Guide) The Finite Element Method: Linear Static and Dynamic Finite Element Analysis (Dover Civil and Mechanical Engineering) Dynamic Programming and Optimal Control, Vol. II, 4th Edition: Approximate Dynamic Programming Decoding The Hidden Market Rhythm - Part 1: Dynamic Cycles: A Dynamic Approach To Identify And Trade Cycles That Influence Financial Markets (WhenToTrade) Decoding The Hidden Market Rhythm - Part 1: Dynamic Cycles: A Dynamic Approach To Identify And Trade Cycles That Influence Financial Markets (WhenToTrade) (Volume 1) Modeling Dynamic Biological Systems (Modeling Dynamic Systems) Dynamic Modeling in the Health Sciences (Modeling Dynamic Systems) Modeling and Analysis of Dynamic Systems, Second Edition Principles And Practice of Mechanical Ventilation, Third Edition (Tobin, Principles and Practice of Mechanical Ventilation) Barron's Mechanical Aptitude and Spatial Relations Test, 3rd Edition (Barron's Mechanical Aptitude & Spatial Relations Test) Introduction To Dynamic Systems Analysis Running the Numbers: A Practical Guide to Regional Economic and Social Analysis: 2014: A Practical Guide to Regional Economic and Social Analysis Mechanical Costs with Rsmeans Data (Means Mechanical Cost Data) Master The Mechanical Aptitude and Spatial Relations Test (Mechanical Aptitude and Spatial Relations Tests) Practice Problems for the Mechanical Engineering PE Exam, 13th Ed (Comprehensive Practice for the Mechanical Pe Exam) Shigley's Mechanical Engineering Design (McGraw-Hill Series in Mechanical Engineering) The Mechanical Design Process (Mcgraw-Hill Series in Mechanical Engineering) Geometric Dimensioning and Tolerancing for Mechanical Design 2/E (Mechanical Engineering) The Mechanical Design Process (Mechanical Engineering)

Contact Us

DMCA

Privacy

FAQ & Help