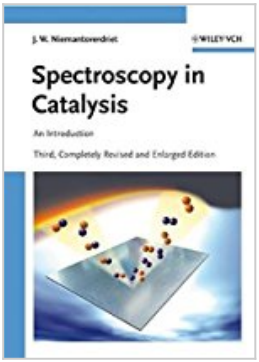

Spectroscopy in Catalysis

By J. W. Niemantsverdriet

Spectroscopy in Catalysis By J. W. Niemantsverdriet

Superbly organized and of great pedagogic value, 'Spectroscopy in Catalysis' describes the most important modern analytical techniques used to investigate catalytic surfaces. These include electron, ion, and vibrational spectroscopy, mass spectrometry, temperature-programmed techniques, diffraction, and microscopy. With the focus on practical use, rather than theory, each chapter presents current applications to illustrate the type of information that the technique provides and evaluates its possibilities and limitations, allowing selection of the best catalyst and the correct technique to solve a given problem. This third edition includes significant new developments and case studies, with all the chapters updated by way of recent examples and relevant new literature. For students and for everyone who wants a digestible introduction to catalyst characterization.

From reviews of the previous editions:

'This is a truly valuable book ... very useful for industrial practitioners who need to be aware of the type of information that can be obtained from modern surface spectroscopies .... The book has a superb pedagogic value...'
Journal of Catalysis

'... this is an excellent text on spectroscopies in catalysis and I highly recommend it for ... introductory courses on heterogeneous catalysis or as a general introductory monograph.'
Journal of the American Chemical Society

Spectroscopy in Catalysis

By J. W. Niemantsverdriet

Spectroscopy in Catalysis By J. W. Niemantsverdriet

Superbly organized and of great pedagogic value, 'Spectroscopy in Catalysis' describes the most important modern analytical techniques used to investigate catalytic surfaces. These include electron, ion, and vibrational spectroscopy, mass spectrometry, temperature-programmed techniques, diffraction, and microscopy. With the focus on practical use, rather than theory, each chapter presents current applications to illustrate the type of information that the technique provides and evaluates its possibilities and limitations, allowing selection of the best catalyst and the correct technique to solve a given problem.
This third edition includes significant new developments and case studies, with all the chapters updated by way of recent examples and relevant new literature. For students and for everyone who wants a digestible introduction to catalyst characterization.

From reviews of the previous editions:

'This is a truly valuable book ... very useful for industrial practitioners who need to be aware of the type of information that can be obtained from modern surface spectroscopies .... The book has a superb pedagogic value...'
Journal of Catalysis

'... this is an excellent text on spectroscopies in catalysis and I highly recommend it for ... introductory courses on heterogeneous catalysis or as a general introductory monograph.'
Journal of the American Chemical Society

Spectroscopy in Catalysis By J. W. Niemantsverdriet Bibliography

- Sales Rank: #2040288 in Books
- Brand: Brand: Wiley-VCH
- Published on: 2007-07-23
- Original language: English
- Number of items: 1
- Dimensions: 9.78" h x .88" w x 6.81" l, .0 pounds
- Binding: Hardcover
- 344 pages

Editorial Review

Review
'This is a truly valuable book ... very useful for industrial practitioners who need to be aware of the type of information that can be obtained from modern surface spectroscopies .... The book has a superb pedagogic value...'
Journal of Catalysis

'The author has achieved the clarity of presentation without resorting to unnecessary simplifications. The drawings are very instructive and the examples are very well chosen . ... I am convinced that it will soon become an indispensable companion for everybody interested in the studies of catalysis.'
Newsletter of the European Federation of the Catalysis Societies

'... this is an excellent text on spectroscopies in catalysis and I highly recommend it for ... introductory courses on heterogeneous catalysis or as a general introductory monograph.'
Journal of the American Chemical Society

'This admirable and beautifully organized book ... should prove invaluable to generations of graduate students and others embarking on a serious study of solid catalysts.'
Advanced Materials

'Niemantsverdriet's book enriches the scientific literature. A description of surface spectroscopy with textbook character was not previously available.'
Nachrichten aus Chemie, Technik und Laboratorium

From the Publisher
Spectroscopy in Catalysis describes the most important modern analytical techniques used in investigate catalytic surfaces. These techniques include electron spectroscopy (XPS, UPS, AES, EELS), ion spectroscopy (SIMS, SNMS, RBS, LEIS). vibrational spectroscopy (infrared, Raman, EELS), temperature programmed techniques (TPR, TPO, TDS), diffraction (XRD, LEED, EXAFS), and microscopy (TEM, SEM, STEM, STM, AFM, and FIM).

From the Back Cover
This third edition includes significant new developments and case studies,with all the chapters updated by way of recent examples and relevant new literature. For students and for everyone who wants a digestible introduction to catalyst characterization.
Superbly organized and of great pedagogic value, "Spectroscopy in Catalysis" describes the most important modern analytical techniques used to investigate catalytic surfaces. These include electron, ion, and vibrational spectroscopy, mass spectrometry, temperature-programmed techniques, diffraction, and microscopy. With the focus on practical use, rather than theory, each chapter presents current applications to illustrate the type of information that the technique provides and evaluates its possibilities and limitations, allowing selection of the best catalyst and the correct technique to solve a given problem.

From reviews of the previous editions:

This is a truly valuable book...very useful for industrial practitioners who need to be aware of the type of information that can be obtained from modern surface spectroscopies...The book has a superb pedagogic

value..." (Journal of Catalysis)

"...this is an excellent text on spectroscopies in catalysis and I highly recommend it for...introductory courses on heterogeneous catalysis or as a general introductory monograph." (Journal of the American Chemical Society)

Users Review

From reader reviews:

Sandra Gregory:

The book Spectroscopy in Catalysis can give more knowledge and information about everything you want. Why then must we leave a very important thing like a book Spectroscopy in Catalysis? A few of you have a different opinion about reserve. But one aim which book can give many information for us. It is absolutely proper. Right now, try to closer along with your book. Knowledge or information that you take for that, you could give for each other; you can share all of these. Book Spectroscopy in Catalysis has simple shape however you know: it has great and massive function for you. You can seem the enormous world by open up and read a guide. So it is very wonderful.

Michael Walker:

Playing with family in a very park, coming to see the marine world or hanging out with close friends is thing that usually you will have done when you have spare time, after that why you don't try point that really opposite from that. A single activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you are ride on and with addition details. Even you love Spectroscopy in Catalysis, you can enjoy both. It is good combination right, you still need to miss it? What kind of hang-out type is it? Oh can occur its mind hangout guys. What? Still don't understand it, oh come on its known as reading friends.

Philip Newman:

Many people spending their period by playing outside together with friends, fun activity using family or just watching TV 24 hours a day. You can have new activity to shell out your whole day by reading through a book. Ugh, do you consider reading a book will surely hard because you have to bring the book everywhere? It all right you can have the e-book, having everywhere you want in your Smart phone. Like Spectroscopy in Catalysis which is getting the e-book version. So , try out this book? Let's observe.

Eugene Williams:

As we know that book is very important thing to add our expertise for everything. By a book we can know everything we really wish for. A book is a group of written, printed, illustrated or maybe blank sheet. Every year ended up being exactly added. This guide Spectroscopy in Catalysis was filled about science. Spend your time to add your knowledge about your scientific research competence. Some people has various feel when they reading some sort of book. If you know how big selling point of a book, you can truly feel enjoy to read a e-book. In the modern era like at this point, many ways to get book that you just wanted.

Read Spectroscopy in Catalysis By J. W. Niemantsverdriet for online ebook

Spectroscopy in Catalysis By J. W. Niemantsverdriet Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Spectroscopy in Catalysis By J. W. Niemantsverdriet books to read online.

Online Spectroscopy in Catalysis By J. W. Niemantsverdriet ebook PDF download

Spectroscopy in Catalysis By J. W. Niemantsverdriet Doc

Spectroscopy in Catalysis By J. W. Niemantsverdriet Mobipocket

Spectroscopy in Catalysis By J. W. Niemantsverdriet EPub