DESCRIPTION

This long-awaited second edition of the successful introduction to the fundamentals of heterogeneous catalysis is now completely revised and updated.

Written by internationally acclaimed experts, this textbook includes fundamentals of adsorption, characterizing catalysts and their surfaces, the significance of pore structure and surface area, solid-state and surface chemistry, poisoning, promotion, deactivation and selectivity of catalysts, as well as catalytic process engineering. A final section provides a number of examples and case histories.

With its color and numerous graphics plus references to help readers to easily find further reading, this is a pivotal work for an understanding of the principles involved.

ABOUT THE AUTHOR

Professor Sir John Meurig Thomas, FRS, FREng, Former Head of Physical Chemistry, University of Cambridge, is one of the most renowned researcher in the field of heterogeneous catalysis and solid state chemistry. He has been awarded the Davy Medal, the Messel Gold Medal, the Willard Gibbs Gold Medal, U.S. Presidential Green Chemistry Challenge Award, the Linus Pauling Gold Medal and many others. He is the author of over a thousand research papers on the materials and surface chemistry of solids, and over 100 review articles on science, education and cultural issues and the co-author of 30 patents.
W. John Thomas, FR Eng, is Professor Emeritus of Chemical Engineering at the University of Bath.

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