



Modern Heterogeneous Catalysis

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Condition: New. Publisher/Verlag: Wiley-VCH | An Introduction | Written by one of the world's leading experts on the topic, this advanced textbook is the perfect introduction for newcomers to this exciting field. Concise and clear, the text focuses on such key aspects as kinetics, reaction mechanism and surface reactivity, concentrating on the essentials. The author also covers various catalytic systems, catalysis by design, and activation-deactivation. A website with supplementary material offers additional figures, original material and references. | PART I: PHYSICAL CHEMISTRY AND KINETICS Heterogeneous Catalysis Heterogeneous catalytic processes Physical chemistry, elementary kinetics The state of the working catalyst Advanced kinetics, breakdown of mean field approximation PART II: MOLECULAR HETEROGENEOUS CATALYSIS Basic quantum chemical concepts, the chemical bond revisited (jointly written with I. Tranca) Chemical bonding and reactivity of transition metal surfaces Mechanisms of transition metal catalyzed reactions Solid acid catalysis, theory and reaction mechanisms Zeolitic non-redox and redox catalysis, Lewis acid catalysis Reducible solid state catalysts | Format: Paperback | Language/Sprache: english | 1263 gr | 246x172x27 mm | 564 pp.



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