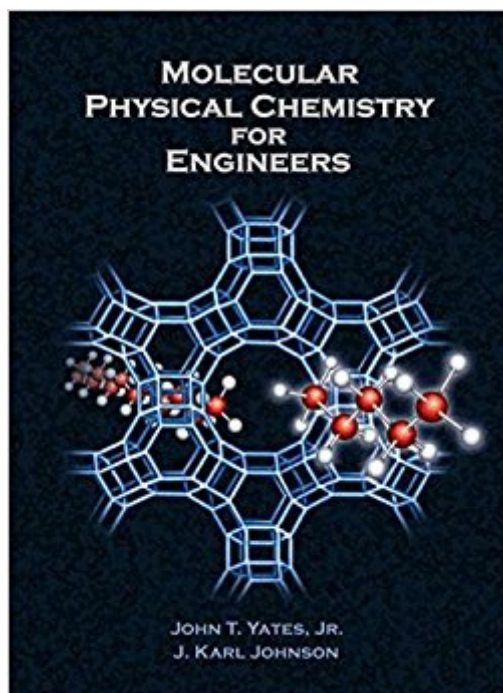


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Molecular Physical Chemistry For Engineers



Synopsis

"Molecular Physical Chemistry for Engineers" emphasizes the behaviour of material from the molecular point of view. It is for engineering students who have a background in chemistry and physics and in thermodynamics. A background in calculus and differential equations is assumed. Each chapter includes a vast array of exercises, for which a Student Solutions Manual is also available.

Book Information

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Customer Reviews

JOHN T. YATES is R.K. Mellon Professor of Chemistry and Physics, and Director of the Pittsburgh University Surface Science Center, USA. J. KARL JOHNSON is William Kepler Whiteford Professor and NETL Faculty Fellow at the University of Pittsburgh, USA.

nice

This class is tougher than tough, but so interesting! You learn stuff that'll blow your mind. Great book, even if the material is tough by nature. Sometimes they pull stuff out of nowhere, but whatever. I can't tell if my frustrations originate from the text or the teacher, so I'll try to stay neutral.

Just started using portions of this text for my class at MIT. I love this book - especially the lengthy textual discussions, illustrations, and vignettes/examples, which help develop chemical intuition. It's

a particularly good supplement to classroom lectures (as a good textbook should be) because the authors seek to EXPLAIN, not just tell. Well done!

After a brief review of basic concepts in thermodynamics, Yates and Johnson cover quantum theory, statistical mechanics, kinetic theory of gases, chemical kinetics and molecular modeling at a level appropriate for upper level undergraduates. Aside from chapter 3, which presents a muddled treatment of the quantum theory of the free particle (see, for example, equation 3.43), the presentation is rather standard, but sound and readable. Scattered throughout the text are appropriate engineering applications such as the historical role of the theory of blackbody radiation and its modern use in optical pyrometry (chapter 2), and available computer programs for molecular modeling, and their application to rational design of lubricants (chapter 8).

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