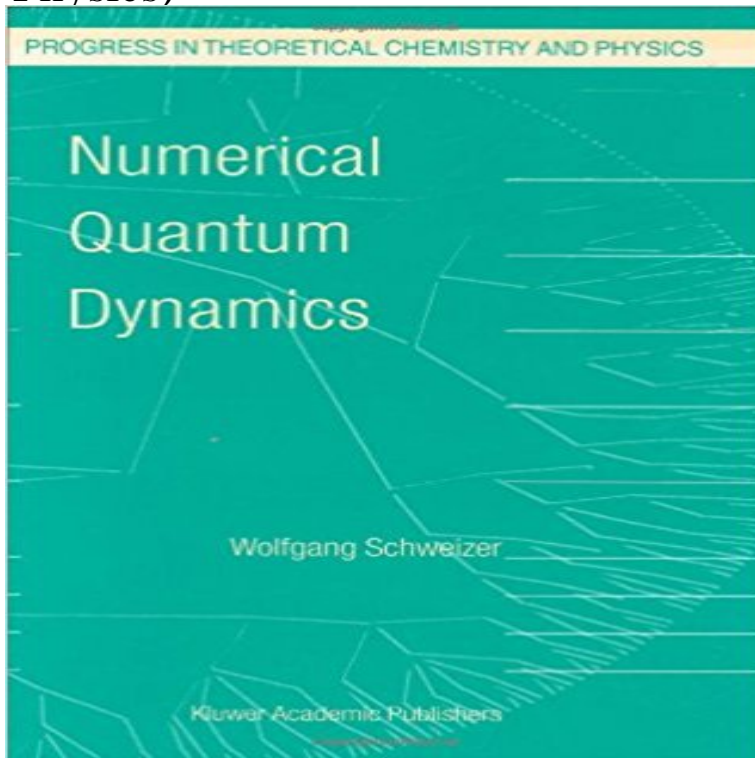


Numerical Quantum Dynamics (Progress in Theoretical Chemistry and Physics)



It is an indisputable fact that computational physics form part of the essential landscape of physical science and physical education. When writing such a book, one is faced with numerous decisions, e. g. : Which topics should be included? What should be assumed about the readers prior knowledge? How should balance be achieved between numerical theory and physical application? This book is not elementary. The reader should have a background in quantum physics and computing. On the other way the topics discussed are not addressed to the specialist. This work bridges hopefully the gap between advanced students, graduates and researchers looking for computational ideas beyond their fence and the specialist working on a special topic. Many important topics and applications are not considered in this book. The selection is of course a personal one and by no way exhaustive and the material presented obviously reflects my own interest. What is Computational Physics? During the past two decades computational physics became the third fundamental physical discipline. Like the traditional partners experimental physics and theoretical physics, computational physics is not restricted to a special area, e. g. , atomic physics or solid state physics. Computational physics is a methodical ansatz useful in all subareas and not necessarily restricted to physics. Of course this methods are related to computational aspects, which means numerical and algebraic methods, but also the interpretation and visualization of huge amounts of data.

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