



Quantum Chemistry

By Donald A. McQuarrie

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After twenty-four years in print, Don McQuarrie has now updated his landmark "Quantum Chemistry". Perhaps the biggest change in the years since the first edition is the proliferation of computational chemistry programs that calculate molecular properties. McQuarrie has presented step-by-step SCF calculations of a helium atom in Chapter 9 and a hydrogen molecule in Chapter 10, in addition to including an entire chapter on the Hartree-Fock method and post-Hartree-Fock methods for the calculation of molecular properties. The book also uses problems to encourage the use of an invaluable National Institute of Science and Technology (NIST) website that lists experimental data and the results of various ab initio calculations for hundreds of molecules.

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Editorial Review

Review

This text is a bargain in more ways than one. --Journal of the American Chemical Society

The strong points of the book are what one might expect from McQuarrie: very clear mathematical derivations and excellent problems. --David Case, UC Davis

About the Author

As the author of landmark chemistry books and textbooks, Donald McQuarrie's name is synonymous with excellence in chemical education. From his classic text on Statistical Mechanics to his recent quantum-first tour de force on Physical Chemistry, McQuarrie's best selling textbooks are highly acclaimed by the chemistry community. McQuarrie received his PhD from the University of Oregon, and is Professor Emeritus from the Department of Chemistry at the University of California, Davis. He makes his home at The Sea Ranch in California with his wife Carole, where he continues to write.

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