



Modern Optical Spectroscopy: With Exercises and Examples from Biophysics and Biochemistry

William W. Parson

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The student edition of Modern Optical Spectroscopy includes a new set of exercises for each chapter. The exercises and problems generally emphasize basic points, and often include simplified absorption or emission spectra or molecular orbitals that can be evaluated easily with the aid of a calculator or spreadsheet. Students who are adept at computer programming will find it instructive to try to write algorithms that also could be applied to larger, more complicated sets of data. Spectra introduced in some of the problems for Chaps. 4 and 5 are used again in later chapters to illustrate how quantities calculated from the spectra can be applied to topics such as resonance energy transfer and exciton interactions. Seattle, November, 2008

William W. Parson Preface This book began as lecture notes for a course on optical spectroscopy that I taught for graduate students in biochemistry, chemistry, and our interdisciplinary programs in molecular biophysics and biomolecular structure and design. I started expanding the notes partly to try to illuminate the stream of new experimental information on photosynthetic antennas and reaction centers, but mostly just for fun. I hope that readers will find the results not only useful, but also as stimulating as I have.

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