

Preface

Research work and literature in physiology and biochemistry of insects continues to expand in an explosive and exponential fashion. New journals continue to appear; the literature is very widespread. Experienced and established scientists are likely to find time constraints that make it difficult or impossible to read the general field of insect physiology, and the problem is even more acute for graduate students or undergraduates who are just getting acquainted with the physiology of insects. Even though the Internet and online journals and books offer wonderful advantages, considerable time is still required. My aim in this third edition of *Insect Physiology and Biochemistry* is to produce a book that will be useful to advanced undergraduate and graduate students who may have to take a course in insect physiology, and I hope the book will aid working scientists in a variety of disciplines who conduct research with insects but may have limited time to read general insect physiology. All the topics included in the last edition have been retained, with the addition of recent references to each chapter, more than 500 additional references to those previous chapters. Two new chapters—Biological Rhythms and Insect Symbioses—have been added, with an additional 300+ references, so the book now includes about 2600 references to the literature. Another new feature in this edition is the inclusion of Review and Self-Study Questions at the end of each chapter. I have found these helpful, both in classroom teaching and in a distance education approach with students when I could only communicate with them by e-mail.

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