



Insect Physiology and Biochemistry, Second Edition

James L. Nation

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Expanded and updated, this second edition of a bestselling book challenges conventional entomological wisdom with the latest research and analytical interpretations. Encouraging independent evaluation of the data and allowing for the extrapolation of major concepts across species, this indispensable text establishes a thorough understanding of the physiological and biochemical functions and adaptations that have made insects one of the most successful groups of living organisms on the planet.

Comprehensive in scope, yet organized to provide immediate access to specific information, **Insect Physiology and Biochemistry, Second Edition** —

- Features new chapters on insect immunity and diapause
- Expands information on the dynamics and mechanics of flight and on color vision
- Details all major physiological functions
- Examines all stages of the lifecycle and development
- Highlights the relationship of insect physiology and behavior
- Discusses environment and ecology as determinants in physiological and biochemical adaptations
- Supplies more than 250 illustrations, including electron and transmission electron micrographs
- Contains nearly 2000 references and Websites
- Includes a new, four page color insert

Following the tradition of its bestselling predecessor, this edition provides working scientists and students with an engaging and authoritative guide to the most current findings in the field.

James L. Nation is Professor Emeritus in the Entomology and Nematology Department at the University of Florida at Gainesville. He taught insect physiology at the graduate level for 42 years. His research includes nitrogen excretion, pheromones, cuticular hydrocarbons, and insect nutrition. He is currently editor of *Florida Entomologist*.

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