

cods, ecology of stomatopods and isopods), results of laboratory analyses are not related to those of field studies. In this regard, the volume would have benefited from chapters on some of the better-studied groups (for example, fiddler crabs). The second major problem is a lack of a strong theoretical perspective or integration across taxa. Overviews identifying similarities and contrasts among groups and considering such issues as the relative roles of pheromones, stereotypical behavior, and anatomical specialization as reproductive isolating mechanisms would have better demonstrated the value of crustacean systems in a comparative, evolutionary context. A review of the sexual biology of free-living barnacles is missing, even though much is known about this group. Chapters that are repetitious (for example, that on lobster mating) or that deal with taxa subjects for which less information is available (remipedes, chemical composition of spermatophores) could have been shortened to allow space for some integrative overviews.

Nevertheless, the volume is a milestone for the rapidly growing ranks of carcinologists. The authors make a good case for using crustaceans as model systems for sexual biology, and their efforts should stimulate new research on physiological mechanisms and ecological consequences of crustacean mating behavior.

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