experience in writing this book and includes many of his own photographs among the excellent color plates. From these and the text, one gets a good impression of the nature of both cryptic and aposematic (warning) coloration. Other aspects of predator defense from anachoresis (hole dwelling) to thanatosis (death feigning) are also extensively covered.

In spite of these merits, however, the book must rate as a disappointment. This is too bad because it had available a clear niche as successor to H. B. Cott's Adaptive Coloration in Animals published in 1940. Edmunds does review much of the information accumulated in the last 35 years, but by and large he fails to place it in ecological and evolutionary perspective and fails to indicate the relevance of his subject to recent advances in evolutionary theory. A good example is his discussion of "chemical ecology," the study of the synthesis of various noxious or poisonous chemicals by plants and their subsequent incorporation by herbivores. Edmunds adopts the current argument that many herbivores incorporating these substances are protected from predation by aposematic coloration. Indeed this may be the case, but there remains the fundamental question of how the system evolves when a predator, while learning to avoid a noxious prey, still kills its first intended victim (as in the case of blue jays which swallow and then vomit monarch butterflies or their caterpillars). As Edmunds indicates, one solution is automimicry as suggested by Brower; but there are also obvious issues of kin selection, and these are never mentioned. In fact Edmunds himself falls back on a naive group selectionist argument involving "benefit" to the species. Group selectionist statements of this sort are scattered throughout the book, and discussion of the current ferment over kin selection, group selection, and the evolution of parenthood and social groups is conspicuously absent in spite of obvious relevance.

book also has other faults. Throughout the author reduces every experimental design to its simplest chisquare, frequently misleadingly and sometimes incorrectly. He leaves one with the feeling that he believes that if one can do a chi-square one can do quantitative ecology; in fact, he virtually says as much in the preface. As a result the book imparts quite misleading notions about experimental design. In some cases Edmunds also falls into the "inflated N" trap of testing for differences between frequencies of prey items taken when in fact the sample is the predators. Finally, there is only superficial mention of the importance of predator behavior as a selective force in spite of a penultimate chapter on the evolution of predator-prey interactions.

Thus a significant opportunity has been missed. For some time we have needed a critical review of our assumptions regarding defense mechanisms and a synthesis of empirical evidence and current evolutionary theory. Regrettably that is still the case.

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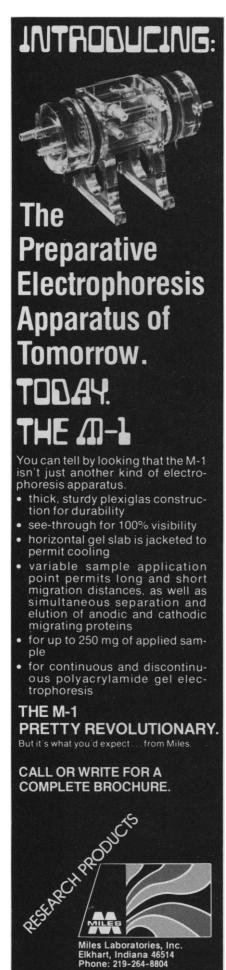
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(Continued on page 1134)



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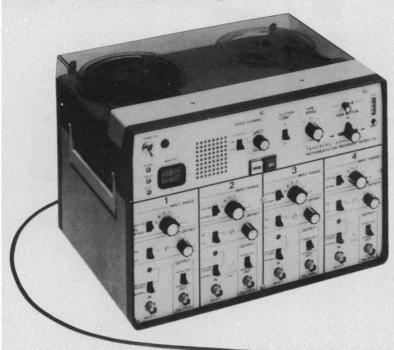
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