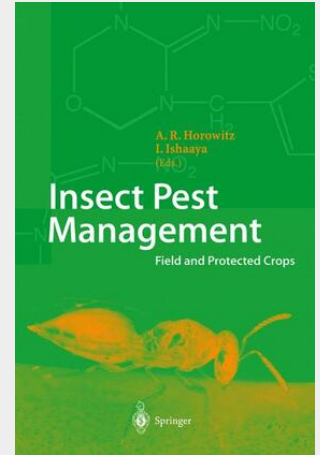


## Insect Pest Management

Field and Protected Crops

In the middle of the twentieth century, new insecticides were being constantly developed and it seemed that pesticides would be able to control insect pests indefinitely. In fact, from the 1950s to the 1980s, pest control was mostly based on conventional insecticides such as organochlorines, organo phosphates, carbamates and pyrethroids. However, the severe adverse effects of pesticides on the environment, the resistance problems reaching crisis proportions and public protests led to stricter regulations and legislation aimed at reducing the use of pesticides. Consequently, other ways to manage insects have been suggested, such as the use of biorational pesticides with minimal adverse effects on the environment, biological control, host-plant resistance to pests, mating disruption with pheromones, and cultural and physical control. The ideas behind "integrated control" were published at the end of the 1950s by groups of entomologists from California, and served as a basis for initiating integrated pest management (IPM) in the 1970s. Since the 1980s, insecticide resistant management (IRM) programs have been introduced as a result of increasing problems of resistance to pesticides. IPM programs were strengthened as the awareness of environmental fragility intensified. Since the late 1990s, advanced approaches to manage insect pests have been developed. One of the novel and exciting innovations in the study of plant resistance to pests has been the introduction of genetically engineered or transgenic plants.

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