



Effects of Radiation on Semiconductors

Viktor S. Vavilov

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The effects of electromagnetic radiation and high-energy particles on semiconductors can be divided into two main processes: (a) the excitation of electrons (the special case is internal ionization, i. e. , the generation of excess charge carriers); and (b) disturbance of the periodic structure of the crystal, i. e. , the formation of "structural radiation defects. " Naturally, investigations of the effects of radiation on semiconductors cannot be considered in isolation. Thus, for example, the problem of "radiation defects" is part of the general problem of crystal lattice defects and the influence of such defects on the processes occurring in semiconductors. The same is true of photoelectric and similar phenomena where the action of the radiation is only the start of a complex chain of nonequilibrium electron processes. Nevertheless, particularly from the point of view of the experimental physicist, the radiation effects discussed in the present book have interesting features: several types of radiation may produce the same result (for example, ionization by photons and by charged particles) or one type of radiation may produce several effects (ionization and radiation -defect formation). The aim of the author was to consider the most typical problems. The subjects discussed differ widely from one another in the extent to which they have been investigated.

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