

RADIATION-INDUCED MODIFICATIONS  
OF ELECTRICAL PROPERTIES  
OF VITREOUS DIELECTRIC SiO<sub>2</sub>

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S u m m a r y

The regularities of the radiation-thermal modifications of electrical properties of vitreous dielectric SiO<sub>2</sub> are studied in a broad range of temperatures and ionizing radiation doses. The activation energies are determined, and the non-activation law for the temperature dependence of bulk material electrical conduction is found, whose parameters are different in the low- and high-temperature regions. Experimental results are discussed in the framework of the existing models of charge transport.