

COMPUTER SIMULATION OF RADIATIVE  
CREEP OF A REACTOR FUEL BY AN  
EXAMPLE OF URANIUM AND ITS ALLOYS

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S u m m a r y

A model of radiative creep is developed within the framework of the mechanism of sliding and climbing dislocations based on the conception of a dislocation as a nonideal sink for point radiation defects (PRD). The offered model is efficient for stationary concentrations of PRD, considerably exceeding a thermal steady-state one. The curves of the stationary velocity of radiative creep vs temperature for uranium and its alloys with small additions of molybdenum (from 0.9% to 1.3%) are obtained.