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DESCRIPTORS: \*Diffusion, \*Cast iron, \*Carbon,  
Temperature, Velocity, Energy

The equation defining the relation between temperature  
and the velocity of processes connected with reactive  
diffusion is examined. The results obtained justify the  
conclusion that the values of the activation energy of a  
complex process calculated by a simple exponential re-  
lation cannot always be used as a criterion of the rate-  
determining step. A method is indicated for calculating

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