

MECHANICS

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LONGITUDINAL VIBRATIONS OF POLYMERIZED  
BAR WITH REGARD TO LATERAL MOTION  
DYNAMICS

**Abstract**

*In the paper, L.Pohhamer's generalized equation on investigation of influence of lateral motion and also polymerization effect on longitudinal eigen vibration of a polymerized bar is suggested. The physical effect consisting in the fact that controlling the polymerization character of power fibrous structure one can create composite materials possessing the property of shock wave damper in dynamical problems of mechanics, is established.*