

Abstract Submitted
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Effects of inclusions on the dynamics of viscoelastic media

STEPHEN MIRIGIAN, MURUGAPPAN MUTHUKUMAR, University of Massachusetts — The modification of material properties due to the presence of inclusions in solutions and elastic composites are well known, modifying properties such as viscosity and elastic moduli. We calculate the mobility of such an inclusion in a viscoelastic medium as well as effective dynamic material properties due to the presence of such inclusions at various frequencies.

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