Vibrorheology: Main Results, New Problems

Iliya Blekhman, Ekaterina Shishkina
Institute for Problems of Mechanical Engineering, RAS, St. Petersburg, Russia

Vibrorheology was defined by the author as part of rheology and nonlinear mechanics in which one studies the change of the rheological properties with respect to slow forces as well as the corresponding slow motions of bodies under the action of vibration (i.e. “fast” actions). One can also say that vibrorheology is a rheology for the observer who does not notice the fast forcers or fast motions, i.e. that it is part of vibrational mechanics. A brief review of the results in this field developing very intensively is presented in the paper. A particular attention has been given to the latest results. Some problems unsolved as yet are also enumerated.

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