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The authors study the unconstrained (free) motion of an elastic solid B in a Navier-Stokes liquid L occupying the whole space outside B , under the assumption that a constant body force b is acting on B . More specifically, the authors are interested in the steady motion of the coupled system $\{B, L\}$, which means that there exists a frame with respect to which the relevant governing equations possess a time-independent solution. The authors prove the existence of such a frame, provided some smallness restrictions are imposed on the physical parameters, and the reference configuration of B satisfies suitable geometric properties.

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