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Authors: M.H. Korayem, A. Homayooni



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Non-classic modeling of three-dimensional manipulation with different geometry of atomic force microscopy components: Multi-scale approach

M. H. Korayem^{1*} and A. Homayooni¹

¹*Robotics Research Laboratory, Center of Excellence in Experimental Solid Mechanics and Dynamics, School of Mechanical Engineering, Iran University of Science and Technology, Tehran, Iran*

* Corresponding author Email: hkorayem@iust.ac.ir

Tel: +98-21-77240540, Fax: 77240488

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