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Design, Assembly and Working Modes of Spherical 3-RRR Coaxial Parallel Robot

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Abstract

Design, configuration and operation modes of spherical 3-_RRR coaxial parallel robot were performed. A mathematical analysis of the robot was made, which consists of inverse and forward kinematic using geometric and numerical methods respectively, using MATLAB environment. Based on the above, eight possible operation and configuration modes were derived. The proposed approach demonstrates that a unique solution for the specific configuration and operation mode of a coaxial