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The principles developed can be applied to both control of robots and the design of their major moving parts. Comprehensive coverage of the screw and its geometry bridges the gap between screw theory and traditional mechanics but no prior knowledge of screw theory is assumed.

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The reader is introduced to the screw and its application in robotics by starting with the familiar and simple example of planar motion. No prior knowledge of screw theory and robotics is assumed by the authors. Also, it is not essential for the reader to learn any revolutionary techniques or procedures.

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More recently screw theory, and the highly related study of dual quaternions, has been applied to robotics, computational geometry and multibody dynamics [3, 10,13]. Screw transformations consist...

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Screw Theory and its Applications in Robotics Marco Carricato
Group of Robotics, Automation and Biomechanics University of Bologna Italy IFAC 2017 World Congress, Toulouse, France.
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Pennock and Oncu applied screw theory to the inverse statics of a six-degrees-of-freedom cylindrical robot. They analyzed the dual actuator forces exerted on each of the three cylindrical joints and the power required by each rotary-linear actuator to support the specified external wrenches acting on the end effector.

Screw Theory - an overview | ScienceDirect Topics

This is termed the transfer principle. Screw theory has become an important tool in robot mechanics, mechanical design, computational geometry and multibody dynamics. This is in part because of the relationship between screws and dual quaternions which have been used to interpolate rigid-body motions.

Screw theory - Wikipedia

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