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Screw Theory and its Applications in Robotics. Kinematics Statics Freedoms Screw Systems ISS and PSS Mobility Design Singularities. 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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Robots and Screw Theory describes the mathematical foundations, especially geometric, underlying the motions and force-transfers in robots. The principles developed in the book are used in the control of robots and in the design of their major moving parts.

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Geometry and Screw Theory for Robotics  
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An important result of screw theory is that geometric calculations for points using vectors have parallel geometric calculations for lines obtained by replacing vectors with screws. This is termed the transfer principle. Screw theory has become an important tool in robot mechanics, mechanical design, computational geometry and multibody dynamics.

### **Screw theory - Wikipedia**

Screw Theory for Robotics - A practical approach for modern Robot Mechanics - A compelling computational approach for Screw Theory KINEMATICS. ... applications. Screw Theory overcomes this ...

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Robots and screw theory : applications of kinematics and statics to robotics.

Oxford : Oxford University Press. MLA Citation. Davidson, J. K. and Hunt, K. H. Robots and screw theory : applications of kinematics and statics to robotics / J.K. Davidson and K.H. Hunt Oxford University Press Oxford 2004.

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