

SPATIAL MECHANISMS

⊗ ANALYSIS AND SYNTHESIS ⊗

RAO V. DUKKIPATI

 **CRC Press**
Taylor & Francis Group

Spatial Mechanisms Analysis And Systems

Zhi-kui Ling



Spatial Mechanisms Analysis And Systems:

Spatial Mechanisms Antonio Lopez-Gomez, 2001-05-04 Spatial Mechanisms Analysis and Synthesis comprises the study of the three dimensional relative motion between the components of a machine Each chapter in this book presents a concise but thorough fundamental statement of the theory principles and methods It then follows this with a selected number of worked examples Numerous references provided at the end of chapters and the bibliography at the end of the book serve as helpful sources for further study

Kinematics of General Spatial Mechanical Systems M. Kemal Ozgoren, 2020-04-27 Guide to kinematic theory for the analysis of spatial mechanisms and manipulators Kinematics of General Spatial Mechanical Systems is an effective and proficient guide to the kinematic description and analysis of the spatial mechanical systems such as serial manipulators parallel manipulators and spatial mechanisms The author highlights the analytical and semi analytical methods for solving the relevant equations and considers four main elements The mathematics of spatial kinematics with the necessary theorems formulas and methods The kinematic description of the links and joints including the rolling contact joints Writing the kinematic chain and loop equations for the systems to be analyzed and Solving these equations for the unspecified variables both in the forward and inverse senses together with the multiplicity and singularity analyses Comprehensive in scope the book covers topics ranging from rather elementary subjects such as spatial mechanisms with single degree of freedom to more advanced topics such as serial manipulators including redundant and deficient ones parallel manipulators and non holonomic spatial cam mechanisms that involve rolling without slipping motions The author presents an effective and accessible symbolic manipulation method making it possible to obtain neat and transparent expressions that describe the systems showing all the kinematic details Such expressions readily lead to analytical or semi analytical solutions They also facilitate the identification and analysis of the multiplicities and singularities This all time beneficial book Provides an easy to use systematic formulation method that is applicable to all sorts of spatial mechanisms and manipulators Introduces a symbolic manipulation method which is effective and straightforward to use so that kinematic relationships can be simplified by using all the special geometric features of the system Offers an accessible format that uses a systematic and easy to conceive notation which has proven successful Presents content written by an author who is a renowned expert in the field Includes an accompanying website Written for academicians students engineers computer scientists and any other people working in the area of spatial mechanisms and manipulators Kinematics of General Spatial Mechanical Systems provides a clear notation formulation and a logical approach to the topic and offers a fresh presentation of challenging material

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Computer-aided Kinematic and Dynamic Analysis of Spatial Mechanisms Xiao-Ping Susan Su, 1997

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Mechanical systems analysis, design, and simulation Bahram Ravani, 1989 *Advances in Design Automation*, 1987:

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