



# Kinematic Differential Geometry and Saddle Synthesis of Linkages

By Delun Wang, Wei Wang



**Kinematic Differential Geometry and Saddle Synthesis of Linkages** By Delun Wang, Wei Wang

With a pioneering methodology, the book covers the fundamental aspects of kinematic analysis and synthesis of linkage, and provides a theoretical foundation for engineers and researchers in mechanisms design.

- The first book to propose a complete curvature theory for planar, spherical and spatial motion
- Treatment of the synthesis of linkages with a novel approach
- Well-structured format with chapters introducing clearly distinguishable concepts following in a logical sequence dealing with planar, spherical and spatial motion
- Presents a pioneering methodology by a recognized expert in the field and brought up to date with the latest research and findings
- Fundamental theory and application examples are supplied fully illustrated throughout

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### Editorial Review

#### Review

"After reading this book, the reader will be convinced that the intended audience for it consists of researchers in differential geometry and discrete kinematic geometry, particularly in multi- dimensional space and in the kinematics of manipulators with multiple degrees of freedom. The book is useful also for scientists and engineers as well as graduate and Ph.d students interested in the theory and applications of multibody systems." (Zentralblatt MATH 2016)

#### From the Back Cover

With a pioneering methodology, this book covers the fundamental aspects of kinematic analysis and synthesis of linkages, and provides a theoretical foundation for engineers and researchers in mechanism design. The authors present, for the first time, both the kinematic geometry in differential geometry from planar motion to spherical and spatial motion, and the saddle kinematic synthesis of planar and spatial linkages by the best uniform approximation.

- The first book to propose the generalized curvature corresponding to binary links, and set up the unified curvature theory in kinematics based on centrodes (axodes).
- Describes the global geometrical properties of loci in discrete kinematics by the invariants of the constraint curves and ruled surfaces of binary links.
- Well-structured format with chapters progressing logically from planar to spherical and spatial motion.
- Presents a pioneering methodology by recognized experts in the field, updated with the latest research findings.
- Fundamental theory and application examples are supplied.
- Fully illustrated throughout.

*Kinematic Differential Geometry and Saddle Synthesis of Linkages* is a ground-breaking and significant addition to the field of mechanism design. It is intended for graduate students, researchers, and design engineers in mechanical, aerospace, and automotive engineering.

#### About the Author

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**Terrie Anderson:**

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