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	 2.6.1 Six-bar Linkages; 2.6.2 Local Saddle Curve Fitting; 2.6.3 Dwell Function Synthesis; 2.7 Discussion; References; Chapter 3 Differential Geometry of the Constraint Curves and Surfaces; 3.1 Space Curves; 3.1.1 Vector Representations; 3.1.2 Frenet Trihedron; 3.2 Surfaces; 3.2.1 Elements of Surfaces; 3.2.2 Ruled Surfaces; 3.2.3 Adjoint Approach; 3.3 Constraint Curves and Surfaces; 3.4 Spherical and Cylindrical Curves; 3.4.1 Spherical Curves (S-S) 3.4.2 Cylindrical Curves (C-S)3.5 Constraint Ruled Surfaces; 3.5.1 Constant Inclination Ruled Surfaces (C'-P'-C); 3.5.2 Constant Axis Ruled Surfaces (C'-C); 3.5.3 Constant Parameter Ruled Surfaces (H-C, R-C); 3.5.4 Constant Distance Ruled Surfaces (S'-C); 3.7.3 Constant Inclination Curvature; 3.6 Generalized Curvature of Curves; 3.6.1 Generalized Curvature of Space Curves; 3.6.2 Spherical Curvature and Cylindrical Curvature; 3.7 Generalized Curvature; 3.7.4 Constant Axis Curvature; 3.8 Discussion; References Chapter 4 Spherical Kinematic Differential Geometry4.1 Spherical Displacement; 4.1.1 General Expression; 4.1.2 Adjoint Expression; 4.2 Spherical Differential Kinematics; 4.2.1 Spherical Coupler Curves; 4.3.1 Basic Equation; 4.3.2 Double Point; 4.3.3 Distribution; 4.4 Discussion; References; Chapter 5 Discrete Kinematic Geometry and Saddle Synthesis of Spherical Linkages; 5.1 Matrix Representation; 5.2 Saddle Spherical Circle Point; 5.2.1 Saddle Spherical Circle Fitting; 5.2.2 Saddle Spherical Circle 5.2.3 Four Positions
Sommario/riassunto	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 fi