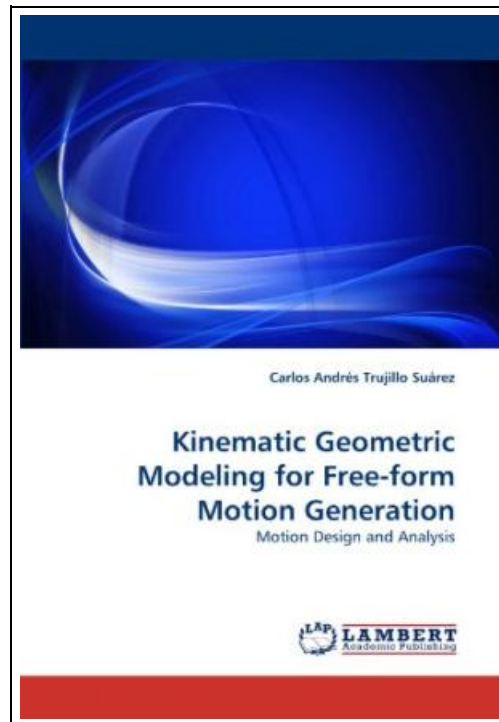


Kinematic Geometric Modeling for Free-form Motion Generation



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Reviews

This is actually the best book i actually have go through right up until now. It generally will not price an excessive amount of. I discovered this book from my dad and i suggested this book to understand.
(Norma Carroll)

KINEMATIC GEOMETRIC MODELING FOR FREE-FORM MOTION GENERATION



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Motion Design and Analysis | This work presents new approaches for motion design and analysis suitable for the integration of Computer Aided Design (CAD), Computer Aided Manufacturing (CAM) and Computerized Numerical Control (CNC). Therefore, not only shape but also kinematic information is conveyed in an efficient manner that can be easily implemented in CAD/CAM systems and eventually interpreted by CNC manufacturing equipment. By using dual quaternions, quaternions and planar quaternions, the displacements of a rigid body in Cartesian space are mapped into points in the image space of displacements, transforming the kinematic problem of motion interpolation into a geometric problem where the powerful techniques for curve and surface interpolation from Computer Aided Geometric Design (CAGD) can be readily applied. Three techniques are developed using quaternion biarcs, a four point interpolatory subdivision scheme and its tensor product version. A preliminary approach for mechanism simulation using subdivision schemes is also attempted. The results obtained have applications in CNC tool path generation, robot path planning, and computer animation. | Format: Paperback | Language/Sprache: english | 96 pp.



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