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Sinopsis

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Beginning at an introductory level and progressing to more advanced topics, this comprehensive handbook provides all the information needed to properly design, model, analyze, specify, and manufacture cam-follower systems. The reader will find complete coverage of:

Proper Cam Design Techniques

Single- and Multi-Dwell Cams

Classical Cam Functions

Polynomial Cams

Spline Functions for Cams

Pressure Angle & Radius of Curvature

Radial and Barrel Cams

Translating & Oscillating Followers

Roller & Flat-Faced Followers

Forward & Inverse Dynamic Analyses

Residual Vibrations

Polydyne & Splinedyne Cams

Cam Profile Definition

Cutter Compensation

Conjugate Cams

Cam Materials & Manufacturing Techniques

Stress Analysis of the Cam Follower Joint

Lubrication of the Cam Follower Joint

Measurement of Cam Follower Dynamics

Extensive Bibliography of the Cam Literature

Case Studies of Cam Designs