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observational basics of orbit determination, information about precision calculations for data used inflight, and improvements in mission design procedures. Orbital Mechanics and Astrodynamics: Techniques and Tools for Space Missions is ideal for students in astronautical or aerospace engineering and related fields, as well as engineers and researchers in space industrial and governmental research and development facilities, as well as researchers in astronautics. · Covers fundamental principles to expose students to the basic dynamics of space flight; · Illustrates all key concepts with examples; · Includes new homework exercises and numerical answers to selected problems.