

Contents

MOTION IN THE VICINITY OF THE TRIANGULAR LIBRATION CENTERS André Deprit	1
MOTION OF A PARTICLE IN THE VICINITY OF A TRIANGULAR LIBRATION POINT IN THE EARTH-MOON SYSTEM J. Pieter deVries	31
THE DOMINANT FEATURES OF THE LONG-PERIOD LIBRATIONS OF THE TROJAN MINOR PLANETS P. J. Message	70
OUTLINE OF A THEORY OF NONPERIODIC MOTIONS IN THE NEIGHBORHOOD OF THE LONG-PERIOD LIBRATIONS ABOUT THE EQUILATERAL POINTS OF THE RESTRICTED PROBLEM OF THREE BODIES Eugene Rabe	79
ELEMENTS OF A THEORY OF LIBRATIONAL MOTIONS IN THE ELLIPTICAL RESTRICTED PROBLEM Eugene Rabe	102
THE EQUILIBRIUM SHAPE OF THE EARTH IN THE LIGHT OF RECENT DISCOVERIES IN SPACE SCIENCE John A. O'Keefe	119
THE STABILITY OF A ROTATING LIQUID MASS John A. O'Keefe	155
GEODETTIC PROBLEMS AND SATELLITE ORBITS W. H. Guier	170
ELEMENTS OF CALCULUS OF VARIATIONS AND OPTIMUM CONTROL THEORY Magnus R. Hestenes	212
INDEX	255