

The satellite dynamics inclination function (English) (Chinese Edition)

By WU LIAN DA. MA JING YUAN. WANG HONG BO

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date: 2012 Pages: 180 Language: English Publisher: Science Press Inclination function is On a kind of special function commonly-used in the satellite dynamics With the technical development and intensive study theorder of inclination function to be calculated becomes higher and higher. For the high-precision computation of inclination function. this bookletintroduced the available methods. put forward new methods. gave their FORTRAN program. and studied their stability. This booklet can be used as a reference for scholars of astronomy and earthscience. and can be also used as a textbook of the graduates. Contents: Preface1 Introduction1.1 Introduction of inclination function1.2 Other definitions of IncFun1.3 Requirements of satellite dynamics for IncFun1.3.1 Normalized IncFun and its derivatives 1.3.2 Kernel of lncFun 1.3.3 Calculating order and storage of IncFun1.4 About this book2 Expressions of IncFun and its derivative 2.1 Frequently used notations of lncFun 2.1.1 Normalized IncFun'2.1.2 Quasinormalized IncFun2.1.3 Kernel of IncFun2.1.4 Gooding's notation2.1.5 Emeljanov's notation2.2 Series expressions oflncFun2.2.1 Single summation expression2.2.2 Dual summation expression2.2.3 Triple summation expression2.3 Definite integral expression oflncFun2.4 Jacobi polynomial expression oflncFun2.5 Hypergeometric series expression of lncFun2.5.1 Expressions in three areas 2.5.2 Expression suited to areas A and B2.5.3 Unified

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