

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



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## THE SATELLITE DYNAMICS INCLINATION FUNCTION (ENGLISH)(CHINESE EDITION)



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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 the order of inclination function to be calculated becomes higher and higher. For the high-precision computation of inclination function. this booklet introduced 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 earth science. and can be also used as a textbook of the graduates. Contents: Preface 1 Introduction 1.1 Introduction of inclination function 1.2 Other definitions of IncFun 1.3 Requirements of satellite dynamics for IncFun 1.3.1 Normalized IncFun and its derivatives 1.3.2 Kernel of IncFun 1.3.3 Calculating order and storage of IncFun 1.4 About this book 2 Expressions of IncFun and its derivative 2.1 Frequently used notations of IncFun 2.1.1 Normalized IncFun 2.1.2 Quasinormalized IncFun 2.1.3 Kernel of IncFun 2.1.4 Gooding's notation 2.1.5 Emeljanov's notation 2.2 Series expressions of IncFun 2.2.1 Single summation expression 2.2.2 Dual summation expression 2.2.3 Triple summation expression 2.3 Definite integral expression of IncFun 2.4 Jacobi polynomial expression of IncFun 2.5 Hypergeometric series expression of IncFun 2.5.1 Expressions in three areas 2.5.2 Expression suited to areas A and B 2.5.3 Unified hypergeometric series expression 2.6 dfunction expression of IncFun 2.6.1 dfunction expression 2.6.2 Expression of inclination matrix element 2.6.3 Timoshkova's expression 2.6.4 Kinoshita's expression 2.6.5 Comparison of four expressions 2.7 Tisserand polynomial expression of IncFun 2.8 Calculating method of the derivatives of IncFun 2.8.1 The 1st method 2.8.2 The 2nd method 2.8.3 The 3rd method 2.9 Primary properties of IncFun 3 Recursion of inclination function 3.1 Classification of recursion 3.1.1 Classification with special function used 3.1.2 Classification with recursion index 3.1.3 Classification with recursive function 3.2 Starting values ?? for recursion of IncFun 3.2.1 Starting values ?? for L plane recursion 3.2.2 Starting values ?? for M plane recursion 3.3 Recursion using recursion relations of Legendre polynomial: Giacaglia's formulae 3.3.1 The first set of formulae 3.3.2 The second set of formulae 3.3.3 The third set of formulae 3.4...



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