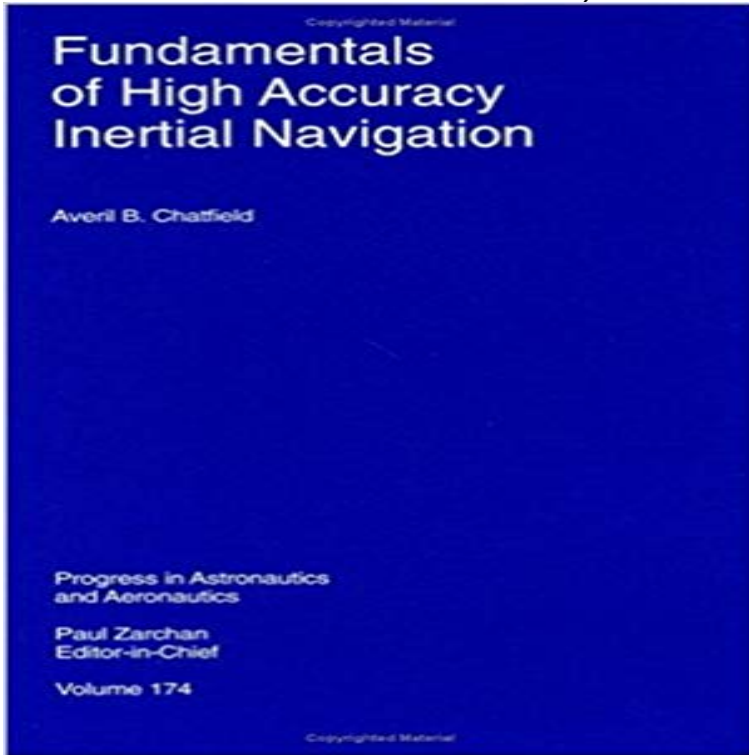


# Fundamentals of High Accuracy Inertial Navigation (Progress in Astronautics and Aeronautics)



The primary focus of *Fundamentals of High Accuracy Inertial Navigation* is on the physical and mathematical principles forming the basis for inertial navigation. The material in the book is directly applicable to the inertial navigation of all types of vehicles whether on land, in or on the ocean, in the atmosphere, or in space in the vicinity of the Earth. *Fundamentals of High Accuracy Inertial Navigation* describes the essential parts played by control system theory and geodesy. The book comprehensively treats aspects of the blend of inertial navigation technology and geodesy, and takes up the subject of accuracy criteria and evaluation. Error propagation is dealt with at length and the propagation of inertial instrument errors is given extensive treatment. *Fundamentals of High Accuracy Inertial Navigation* is divided into three parts: inertial navigation, inertial navigation with aids, and accuracy analysis. The first two parts are designed to give the reader an understanding of the fundamentals without requiring knowledge of the statistical analysis techniques involved in determining the effects of errors on accuracy. In addition, the first parts provide the reader with enough information to understand how inertial navigation systems function and how they are designed. The third part defines the criteria for determining accuracy and then leads the reader through the complex process of that determination. This book is intended for the third or fourth year engineering student as well as professional engineers or scientists trained in mathematics, control theory, analytical mechanics, geodesy or physics, who have a need for understanding the basic principles of inertial navigation technology.

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