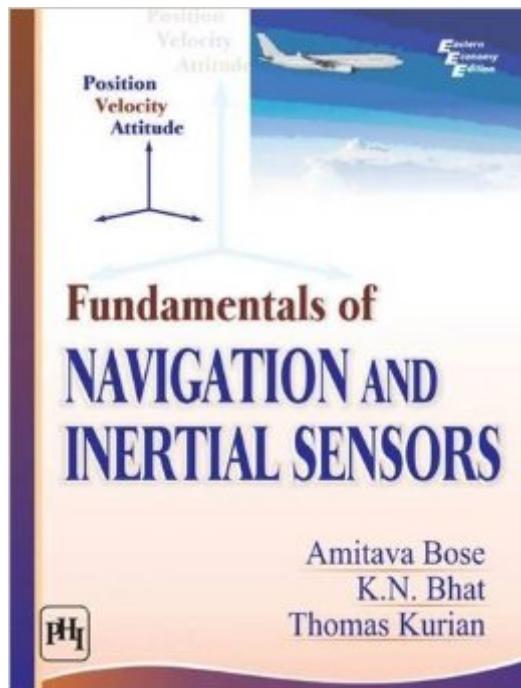


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Fundamentals Of Navigation And Inertial Sensors



Synopsis

Navigation fundamentally provides information on position, velocity and direction which are needed for travel in ocean, land, air and in space. The myriad forms of navigation developed so far are collectively called modern navigation. This recent text discusses new promising developments that will assist the students when they enter their future professional career. It is the outcome of authors' wide experience in teaching, research and development in the field of navigation and inertial sensors. The content of the book is designed to impart adequate knowledge to the students in the area of navigation and related sensors. The text discusses inertial navigation, inertial sensors, mems based inertial sensors, satellite navigation, integrated inertial navigation, signal processing of inertial sensors and their applications. The chapters introduce all the topics in an easy to understand manner so that an appreciative understanding of the text matter can be made without resorting to equations and mathematics. Considerable references have been provided to enable both the students and the professors to dwell and learn more on the topics of their interest. This textbook is primarily intended to meet the academic needs of undergraduate and postgraduate students of aerospace engineering and avionics. Table of

contents:prefaceacknowledgementsacronymsintroduction to navigationautonomous strapdown inertial navigationgyrosaccelerometermems based inertial sensorssatellite navigationintegrated inertial navigationsignal processing of inertial sensorsapplication of navigation and inertial sensorsappendicesa: laser principle and basic characteristics for gyro b: fibre optics features and basic characteristicsc: quality factord: inertial sensor noisee: glossary f: symbols references chapterwiseindex

Book Information

Paperback: 425 pages

Publisher: Prentice-Hall of India Pvt.Ltd; 1 edition (April 30, 2014)

Language: English

ISBN-10: 8120348591

ISBN-13: 978-8120348592

Product Dimensions: 7.1 x 0.7 x 9.3 inches

Shipping Weight: 1.2 pounds

Average Customer Review: 4.0 out of 5 starsÂ See all reviewsÂ (2 customer reviews)

Best Sellers Rank: #1,449,969 in Books (See Top 100 in Books) #40 inÂ Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Satellite #4368 inÂ Books >

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