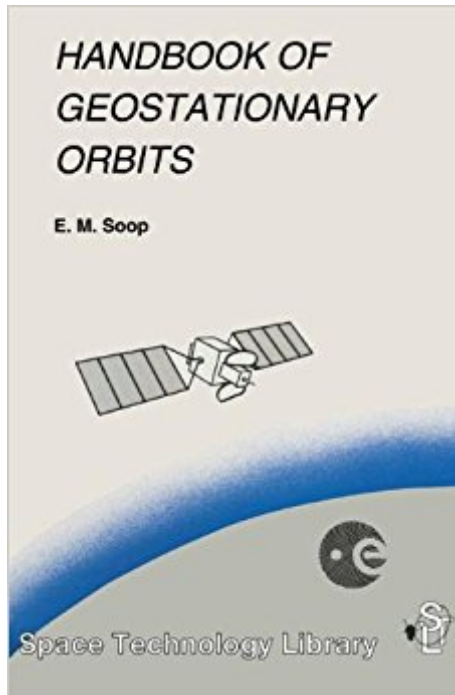


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Handbook Of Geostationary Orbits (Space Technology Library)



Synopsis

This Handbook of Geostationary Orbits is in principle an extension of the Introduction to Geostationary Orbits that was printed as a special publication by the European Space Agency (ESA) in 1983. The immediate purpose was to provide the theoretical background and some practical advice for the orbit control of geostationary spacecraft by means of the software package "PEPSOC". PEPSOC, short for "Portable ESOC Package for Synchronous Orbit Control", was produced by the European Space Operations Centre (ESOC) to support spacecraft operations in the routine phase. The resulting publication was a handbook for engineers and spacecraft operators, rather than a classical textbook in celestial mechanics. During the past eleven years, the software system PEPSOC has found a wide application both within and outside the ESA member states. At the same time, the original Introduction found numerous readers also outside the group of PEPSOC operators. The continuing development and the increasing use of the geostationary orbit has now created the need for a new, more detailed publication to include new aspects that have emerged. The present Handbook contains several additional subjects and more mathematics to describe the methods applied in PEPSOC. The geophysical and astronomical parameters have been updated to reflect the latest recommended values. This results in small deviations of the numerical data compared to the Introduction.

Book Information

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Customer Reviews

This is a highly excellent book, written by an authority who has decades of hands-on experience

with geostationary satellites. The book provides very useful, relevant mathematical models for analysis, design, and simulation, and a large number of practical examples from actual formation control of European geostationary satellites. The mathematics is not esoteric at all; it is highly accessible, practical, and direct. In my judgment, engineers across the world dealing with geostationary satellites will be benefited significantly by the knowledge the author has shared through the book. I greatly admire the author for this.

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