



Navigation: Principles of Positioning and Guidance

By B. Hofmann-Wellenhof, Klaus Legat, M. Wieser



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Global positioning systems like GPS or the future European Galileo are influencing the world of navigation tremendously. Today, everybody is concerned with navigation even if unaware of this fact. Therefore, the interest in navigation is steadily increasing.

This book provides an encyclopedic view of navigation. Fundamental elements are presented for a better understanding of the techniques, methods, and systems used in positioning and guidance.

The book consists of three parts. Beside a historical review and maps, the first part covers mathematical and physical fundamentals. The second part treats the methods of positioning including terrestrial, celestial, radio- and satellite-based, inertial, image-based, and integrated navigation. Routing and guidance are the main topics of the third part. Applications on land, at sea, in the air, and in space are considered, followed by a critical outlook on the future of navigation.

This book is designed for students, teachers, and people interested in entering the complex world of navigation.

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Editorial Review

Review

"... Zielgruppe dieses Standardwerks - das eine große Lücke ausfüllt - sind neben Ingenieuren, Wissenschaftlern und Studenten auch alle mit nautischen Fragen oder FüllInfoSystemen befassten Marineoffiziere; für sie ist es eine Pflichtlektüre!" Marine Forum - Ausgabe A, 79. Jahrg. 2004 "... das Buch wird den erweckten Erwartungen voll und ganz gerecht. Es bietet allen, die sich mit verschiedenen Aspekten der Navigation beschäftigen wollen, eine kompakte Einführung in das Thema, vertieft einzelne Kapitel ohne sich in Details zu verlieren und gibt zahlreiche Hinweise auf weiter führende Literatur." Der Vermessungsingenieur 2/2004

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