



Satellite Geodesy

By Günter Seeber

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Completely revised and updated edition. The book covers the entire field of satellite geodesy (status spring/ reak summer 2002). Basic chapters on reference systems, time, signal propagation, and satellite orbits are updated. All currently important observation methods are included and also all newly launched satellites of interest to geodesy. Particular emphasis is given to the current status of the Global Positioning System (GPS), which covers now about one third of the book. A new chapter on Differential GPS and active GPS reference networks is included. The GPS modernization plans, GLONASS, the forthcoming European system GALILEO, modern developments in GPS data analysis, error modelling, precise real time methods and ambiguity resolution are dealt with in detail. New satellite laser ranging missions, new altimetry missions (e.g. TOPEX/Poseidon, ERS-1/2, GFO, JASON), and new and forthcoming gravity field missions (CHAMP, GRACE, GOCE) are also considered. The book serves as a textbook for advanced undergraduate and graduate students, as well as a reference for professionals and scientists in the field of engineering and geosciences such as geodesy, surveying, geo-information, navigation, geophysics and oceanography.

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Editorial Review

Review

"Als anspruchsvolles Lehrbuch und auch als wissenschaftliches Nachschlagwerk kann es allen Lernenden und Lehrenden der Geodasie und der übrigen Geowissenschaften sowie allen Anwendern, die "nur" einen Überblick über die aktuellen Entwicklungen gewinnen möchten, bestens empfohlen werden." Peter Mesenburg in: *Kartographische Nachrichten* 1/2006 "Ein exzellentes Lehrbuch für das Fach Satellitengeodäsie." Prof. Dr.-Ing. Alfred Kleusberg "The new edition of Gunter Seeber's book will be a welcome addition to the libraries of both students and researchers in the field of navigation, geodesy, and geomatics. It is the only monograph which so completely covers the whole field of space geodesy." Richard Langley, *Canspace* "Das Werk ist modern aufgebaut, gut zu lesen und weist die Handschrift eines erfahrenen Hochschullehrers und Wissenschaftlers auf. Es ist der Fachwelt warmstens zu empfehlen." Lothar Stange in: *Photogrammetrie Fernerkundung Geoinformation* 6/2003 "Dieses Buch spricht Studierende, Praktiker und Interessierte aus Nachbardisziplinen wegen seines umfassend und didaktisch bestens aufbereiteten Inhalts in gleicher Weise an und kann allen zur Anschaffung warmstens empfohlen werden. Es sollte in keiner Fachbibliothek fehlen." Bertold Witte in: *Flächenmanagement und Bodenordnung* 1/2004 "Das Buch kombiniert in perfekter Weise Theorie und Praxis, Rechenmodell und Boden- bzw. Raumsegment." Reiner Rummel in: *Mitteilungen des DVW-Bayern* 4/2004 "Die Neuauflage hat dem Buch, das schon immer seinen Platz auf dem Weltmarkt hatte, ganz entscheidend zur Steigerung der Bedeutung verholfen." E. Groten in: *Allgemeine Vermessungsnachrichten* 3/2004"

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Peter Mesenburg in: Kartographische Nachrichten 1/2006

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Prof. Dr.-Ing. Alfred Kleusberg

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