

DISCONTINUED

# Seapath™ 200



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## Precise Heading, Attitude and Positioning Sensor

Accuracy, reliability and simplicity are now more than ever essential features for equipment used in demanding marine operations. Advancements in areas such as hydro acoustic positioning and seabed mapping systems mean auxiliary equipment must keep up. Within these considerations as the measure of our success, Seatec is pleased to present the third generation Seapath. Building on fifteen years of design and field experience with inertial and GPS technologies, this generation Seapath 200 highlights our commitment to supplying the most precise, reliable and easy-to-use heading, attitude and positioning sensor ever!

### The best of integrated inertial/GPS

The Seapath 200 provides highly accurate, real-time heading, attitude and position information by blending the best characteristics of sensor-based inertial navigation and GPS continuous position update technologies. High-rate motion data obtained from the system's IMU (Inertial Measurements Unit) and precise position data from two, fixed baseline GPS carrier-phase receivers are integrated in a Kalman Filter within the Seapath Processing Unit. Based on analysis and extensive field testing, the Kalman Filter algorithms have been refined to insure maximum measurement fidelity and reliability.

The Seapath 200 IMU contains highly accurate linear accelerometers and Bosch Coriolis force angular rate gyros (CFG). Real-world precision accuracy is guaranteed by utilising the most accurate calibration methods and sophisticated production equipment available. Roll and pitch accuracy together with the linear acceleration performance are documented for each delivered IMU on a Calibration Certificate.

### Robust and reliable

The two, fixed baseline GPS antennas and their receivers that determine precise heading are also used as redundant GPS position and velocity sources. In case of missing data from one GPS receiver, then the other (remaining) receiver provides position and velocity. The Seapath 200 is robust against GPS dropouts by using the IMU to provide position, velocity and heading measurements when GPS is not available.

The Seapath 200 is equipped to utilise up to six different DGPS reference stations to insure robust and reliable DGPS position and velocity measurements. If data from more than six stations are available, the Seapath 200 automatically identifies and uses the six nearest stations. In addition DGNOSS/WAAS (SBAS) correction signals can be utilized to improve position accuracy.

Consistency checking within measurements from the different sensors is performed internally to ensure reliability. Noisy data are automatically rejected or reported as inaccurate.

The Seapath provides accurate roll and pitch under all conditions by tightly integrating the GPS and IMU data. With this feature, horizontal accelerations are observable, making the run-ins needed to stabilise conventional vertical reference systems unnecessary.



### Visual and flexible configuration

The new version of the Seapath configuration software, SCC, centralises configuration of all parts of the system, including the IMU. A 3D visual presentation of the vessel showing the centre of gravity, antenna and measurement point lever arms is used to simplify and promote an error free installation and calibration. Intuitive Help Wizards assist in system setup and operation to minimise operator interface and maximise work time.

### Output variables and protocols

Third generation Seapath data is available through an Ethernet interface making it easy to distribute the Seapath data to multiple users on board the vessel. Data synchronisation with multibeam echo sounders and other equipment is simplified by the availability of a 1-second time pulse (1PPS) on the Seapath data output. Output protocols for commonly used survey equipment are available on up to eight RS-232 or RS-422 individually configurable output serial lines and on Ethernet output. All the data are output in real-time, at high update rate, including the position data.

### Many applications

The Seapath 200 integrated navigation sensor is an excellent solution for applications such as hydrographic surveying, dredging, oceanographic research, seismic work and offshore construction where accurate compensation of multibeam echo sounders, hydro acoustic positioning systems and ADCP's or vessel motion monitoring are required. The Seapath can also be used for continuous calibration of gyrocompasses onboard a vessel.

# Seapath 100 User Manual

**Andrzej Jajszczyk**



## **Seapath 100 User Manual:**

**Operator's and Organizational Maintenance Manual** ,1983      Oceans '99 MTS/IEEE ,1999      **Conference Proceedings** ,1999      **Attenuation of High-frequency Ground Waves Over an Inhomogeneous Earth** Rayner K. Rosich,1970 The primary objective of this study was to obtain theoretical estimates of the effect of inhomogeneities in the earth's surface upon ground wave propagation along a particular set of land sea paths The results were obtained by numerically solving the integral equation where  $f$  is the attenuation function for the inhomogeneous case  $f$  is the Sommerfeld function and  $g$  is obtained essentially from the spherical Green's function by a steepest descent type integration Sharp phase and amplitude changes in the attenuation function occur when crossing an island or inhomogeneity in the paths The greater the difference in conductivity and dielectric constant between the island and the rest of the path the greater are these changes Also noted is the recovery or focusing effect found in the amplitude and phase The effect of moving the transmitting antenna across a coastline was also studied and the results were quite similar to the above Computations were performed for three paths at frequencies of 10 15 20 and 25 MHz The results are displayed in tabular and graphical form This report is a revised and updated version of an earlier study Rosich 1968 which is now out of print      **A Guide to the Wireless Engineering Body of Knowledge (WEBOK)** G. Giannattasio,J. Erfanian,P. Wills,Hung Q. Nguyen,T. Croda,K. Rauscher,X. Fernando,N. Pavlidou,K. Daniel Wong,IEEE Communications Society,2009-03-17 The ultimate reference book for professionals in the wireless industry The information presented in this book reflects the evolution of wireless technologies their impact on the profession and the industry's commonly accepted best practices Organized into seven main areas of expertise A Guide to the Wireless Engineering Body of Knowledge WEBOK enhances readers understanding of Wireless access technologies Network and service architecture Network management and security Radio frequency engineering propagation and antennas Facilities infrastructure Agreements standards policies and regulations Wireless engineering fundamentals Complemented with a large number of references and suggestions for further reading the WEBOK is an indispensable resource for anyone working in the wireless industry      **Propagation Engineering in Radio Links Design** Abdollah Ghasemi,Ali Abedi,Farshid Ghasemi,2013-02-16 This book addresses propagation phenomena in satellite radar broadcasting short range trans horizon and several recent modes of communications in radio links Also it includes some topics on antennas radio noises and improvement techniques The book provides the necessary basic matters as well as experimental results and calculation procedures for radio link design      **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1961      **National Bureau of Standards Miscellaneous Publication** ,1961      **Sound Insulation** Carl Hopkins,2020-09-23 Sound insulation is an important aspect of building performance This book is a comprehensive guide to sound and vibration theory and its application to the measurement and prediction of sound insulation in buildings It enables the reader to tackle a wide range of issues relating to sound insulation

during the design and construction stages of a building and to solve problems in existing buildings The book has been written for engineers consultants building designers students in acoustics researchers and those involved in the manufacture and design of building products Key aspects are that it Explains the fundamental theory using examples that show its direct application to buildings Guides the reader through the links between measurement and theory Explains concepts that are important for the application interpretation and understanding of guidance documents test reports product data sheets published papers regulations and Standards Makes direct reference to ISO and EN Standards on sound insulation Contains a large number of illustrations showing measurements predictions and example calculations for quick reference Carl Hopkins previously worked on building acoustics and environmental noise at the Building Research Establishment During this time he was involved with sound insulation in research consultancy standardization and building regulations as well as being an advisor on acoustics to government departments He is currently a Senior Lecturer at the University of Liverpool within the Acoustics Research Unit of the School of Architecture

**Publications** United States. National Bureau of Standards,1957

**Publications of the National Bureau of Standards** United States. National Bureau of Standards,1986

**Miscellaneous Publication - National Bureau of Standards** United States. National Bureau of Standards,1934

The Broadview Anthology of British Literature Volume 1: The Medieval Period - Third Edition Joseph Black,Leonard

Conolly,Kate Flint,Isobel Grundy,Don LePan,Roy Liuzza,Jerome J. McGann,Anne Lake Prescott,Barry V. Qualls,Claire Waters,2014-12-08 In all six of its volumes The Broadview Anthology of British Literature presents British literature in a truly distinctive light Fully grounded in sound literary and historical scholarship the anthology takes a fresh approach to many canonical authors and includes a wide selection of work by lesser known writers The anthology also provides wide ranging coverage of the worldwide connections of British literature and it pays attention throughout to issues of race gender class and sexual orientation It includes comprehensive introductions to each period providing in each case an overview of the historical and cultural as well as the literary background It features accessible and engaging headnotes for all authors extensive explanatory annotations and an unparalleled number of illustrations and contextual materials Innovative authoritative and comprehensive The Broadview Anthology of British Literature has established itself as a leader in the field The full anthology comprises six bound volumes together with an extensive website component the latter has been edited annotated and designed according to the same high standards as the bound book component of the anthology and is accessible by using the passcode obtained with the purchase of one or more of the bound volumes For the third edition of this volume a number of changes have been made The Old English material has been substantially revised and expanded including new translations by Roy Liuzza of Deor Wulf and Eadwacer and The Battle of Brunanburh A selection from Adrienne Williams Boyarin s new translation of The Miracles of the Virgin will be included along with Sian Echard s translation of selections from Y Gododdin Matthieu Boyd s translation of the first two branches of the Mabinogi is also new to

this edition together with several Early Irish lyrics The Love and Marriage Contexts section has been expanded to include additional material by Christine de Pizan and excerpts from Holy Maidenhood and the Religious and Spiritual Life Contexts section now includes excerpts from Wycliffite writings The selection of material by Sir Thomas Malory has also been substantially revised and expanded In addition the online component of the anthology includes several new selections including The Gifts of Men The Fortunes of Men The Feast of Bricriu material by Robert Henryson and a broader selection of medieval drama

**The Broadview Anthology of British Literature Volume 1: The Medieval Period - Revised Third Edition** Joseph Black, Leonard Conolly, Kate Flint, Isobel Grundy, Don LePan, Roy Liuzza, Jerome J. McGann, Anne Lake Prescott, Barry V. Qualls, Claire Waters, 2023-03-16 In all six of its volumes The Broadview Anthology of British Literature presents British literature in a truly distinctive light Fully grounded in sound literary and historical scholarship the anthology takes a fresh approach to many canonical authors and includes a wide selection of work by lesser known writers The anthology also provides wide ranging coverage of the worldwide connections of British literature and it pays attention throughout to issues of race gender class and sexual orientation It includes comprehensive introductions to each period providing in each case an overview of the historical and cultural as well as the literary background It features accessible and engaging headnotes for all authors extensive explanatory annotations and an unparalleled number of illustrations and contextual materials Innovative authoritative and comprehensive The Broadview Anthology of British Literature has established itself as a leader in the field The full anthology comprises six bound volumes together with an extensive website component the latter has been edited annotated and designed according to the same high standards as the bound book component of the anthology and is accessible by using the passcode obtained with the purchase of one or more of the bound volumes In the revised third edition of this volume the term Anglo Saxon has been removed from our editorial apparatus a change made in response to recent scholarly work that has drawn attention to the term's historical and current usage by white supremacists We have also taken the opportunity to implement a small number of additional improvements We have also taken the opportunity to implement a small number of additional improvements the pagination however remains the same

**Aeronautical Engineering Review**, 1957 *River Flow* 2016 George Constantinescu, Marcelo Garcia, Dan Hanes, 2016-06-22 Understanding and being able to predict fluvial processes is one of the biggest challenges for hydraulics and environmental engineers hydrologists and other scientists interested in preserving and restoring the diverse functions of rivers The interactions among flow turbulence vegetation macroinvertebrates and other organisms as well as the transport and retention of particulate matter have important consequences on the ecological health of rivers Managing rivers in an ecologically friendly way is a major component of sustainable engineering design maintenance and restoration of ecological habitats To address these challenges a major focus of River Flow 2016 was to highlight the latest advances in experimental computational and theoretical approaches that can be used to deepen our understanding and capacity to predict flow and the

associated fluid driven ecological processes anthropogenic influences sediment transport and morphodynamic processes River Flow 2016 was organized under the auspices of the Committee for Fluvial Hydraulics of the International Association for Hydro Environment Engineering and Research IAHR Since its first edition in 2002 the River Flow conference series has become the main international event focusing on river hydrodynamics sediment transport river engineering and restoration Some of the highlights of the 8th International Conference on Fluvial Hydraulics were to focus on inter disciplinary research involving among others ecological and biological aspects relevant to river flows and processes and to emphasize broader themes dealing with river sustainability River Flow 2016 contains the contributions presented during the regular sessions covering the main conference themes and the special sessions focusing on specific hot topics of river flow research and will be of interest to academics interested in hydraulics hydrology and environmental engineering

*VLF Radio Engineering* Arthur D. Watt, 2013-09-17 Electromagnetic Waves Volume 14 VLF Radio Engineering provides a detailed coverage of the fields involved in very low frequency VLF radio engineering This book serves as a guide for applying the information in the solution of practical problems Comprised of seven chapters this volume starts with an overview of the communications aspect following the flow of information carrying energy from the transmitting to receiving locations This text then presents the complete systems that consider the interrelationship of the various factors Other chapters explain the basic concept of a VLF antenna which is a vertical electric monopole over a perfectly conducting flat plane This book discusses as well the radio wave propagation at VLF which has been studied theoretically and experimentally for many years The final chapter deals with the primary components of a complete VLF radio system This book is a valuable resource for radio engineers scientists and researchers

Publications of the National Bureau of Standards, July 1, 1957, to June 30, 1960 United States. National Bureau of Standards, 1961

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**A Guide to the Wireless Engineering Body of Knowledge (WEBOK)** Andrzej Jajszczyk, 2012-10-16 The ultimate reference on wireless technology now updated and revised Fully updated to incorporate the latest developments and standards in the field A Guide to the Wireless Engineering Body of Knowledge Second Edition provides industry professionals with a one stop reference to everything they need to design implement operate secure and troubleshoot wireless networks Written by a group of international experts the book offers an unmatched breadth of coverage and a unique focus on real world engineering issues The authors draw upon extensive experience in all areas of the technology to explore topics with proven practical applications highlighting emerging areas such as Long Term Evolution LTE in wireless networks The new edition is thoroughly revised for clarity reviews wireless engineering fundamentals and features numerous references for further study Based on the areas of expertise covered in the IEEE Wireless Communication Engineering Technologies WCET exam this book explains Wireless access technologies including the latest in mobile cellular technology Core network and service architecture including important protocols and solutions Network management and security from operations process models to key security issues Radio

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