

**The main features are:**

**Safety of navigation by automatically exchanging navigational data between ships (Class A transponders), coast stations, Class B transponders and receiving positional data from AIS-SARTs (Search and Rescue beacons) and AtoNs (Aids to Navigation).**



- Class A AIS transmitter and receiver (transponder)
- Class B compatible (receives all Class B messages)
- Short safety related messages and other short messages.
- 7" color LCD panel with LED backlight connects to transponder unit using Ethernet.
- Interfaces for AIS compatible radar, ECDIS/ECS/Chart plotter and/or PC selectable through RS422 (IEC 61162-2), RS232 or Ethernet (UDP).
- GPS and VHF antenna separate or combined, for easy installation available.
- Built-in GPS receiver for time synchronization and backup position.
- SD-Card slot for future upgrades.

**The information exchanged between ships using AIS transponders are:**

**Static data:**

- MMSI (Maritime Mobile Service Identity).
- IMO number (where available).
- Call sign and name.
- Length and beam.
- Type of ship.
- Location of position-fixing antenna on the ship.

**Dynamic data:**

- Ships position with accuracy indication and integrity status.
- UTC.
- Course over ground (COG).
- Speed over ground (SOG).
- Heading.
- Navigation status (manual input).
- Rate of turn (where available).

**Voyage related data:**

- Ships draught.
- Hazardous cargo (type).
- Destination and ETA (at masters discretion).

# Alerton Web Manual

**A Gutmann**

## **Allerton Web Manual:**

*Web Based Energy Information and Control Systems* Barney L. Capehart, Lynne C. Capehart, 2021-01-07 Advances in new equipment new processes and new technology are the driving forces in improvements in energy management energy efficiency and energy cost control The purpose of this book is to document the operational experience with web based systems in actual facilities and in varied applications and to show how new opportunities have developed for energy and facility managers to quickly and effectively control and manage their operations You'll find information on what is actually happening at other facilities and see what is involved for current and future installations of internet based technologies The case studies and applications described should greatly assist energy facility and maintenance managers as well as consultants and control systems development engineers

*Dynamic Vulnerability Assessment and Intelligent Control* José Luis Rueda-Torres, Francisco González-Longatt, 2018-03-19 Identifying assessing and mitigating electric power grid vulnerabilities is a growing focus in short term operational planning of power systems Through illustrated application this important guide surveys state of the art methodologies for the assessment and enhancement of power system security in short term operational planning and real time operation The methodologies employ advanced methods from probabilistic theory data mining artificial intelligence and optimization to provide knowledge based support for monitoring control preventive and corrective and decision making tasks Key features Introduces behavioural recognition in wide area monitoring and security constrained optimal power flow for intelligent control and protection and optimal grid management Provides in depth understanding of risk based reliability and security assessment dynamic vulnerability assessment methods supported by the underpinning mathematics Develops expertise in mitigation techniques using intelligent protection and control controlled islanding model predictive control multi agent and distributed control systems Illustrates implementation in smart grid and self healing applications with examples and real world experience from the WAMPAC Wide Area Monitoring Protection and Control scheme Dynamic Vulnerability Assessment and Intelligent Control for Power Systems is a valuable reference for postgraduate students and researchers in power system stability as well as practicing engineers working in power system dynamics control and network operation and planning

*Proceedings of the International Machine Learning Workshop, June 22-24, 1983, Allerton House, Monticello, Illinois*, 1983 A collection of papers presenting current research in machine learning from the perspective of artificial intelligence

**Mathematical System Theory** Athanasios C. Antoulas, 2013-04-17 Over the past three decades R E Kalman has been one of the most influential personalities in system and control theory His ideas have been instrumental in a variety of areas This is a Festschrift honoring his 60th birthday It contains contributions from leading researchers in the field giving an account of the profound influence of his ideas in a number of areas of active research in system and control theory For example since their introduction by Kalman in the early 60's the concepts of controllability and observability of dynamical systems with inputs have been the corner stone of the

great majority of investigations in the field     Flight Simulation Software David Allerton,2022-12-05 Flight Simulation Software Explains the many aspects of flight simulator design including open source tools for developing an engineering flight simulator Flight simulation is an indispensable technology for civil and military aviation and the aerospace industry Real time simulation tools span across all aspects of aircraft development from aerodynamics and flight dynamics to avionics and image generation systems Knowledge of flight simulation software is vital for aerospace engineering professionals educators and students Flight Simulation Software contains comprehensive and up to date coverage of the computer tools required to design and develop a flight simulator Written by a noted expert with decades of experience developing flight simulators in academia this highly practical resource enables readers to develop their own simulations with readily available open source software rather than relying on costly commercial simulation packages The book features working software taken from operational flight simulators and provides step by step guidance on software design computer graphics parallel processing aircraft equations of motion navigation and flight control systems and more Explains both fundamental theory and real world practice of simulation in engineering design Covers a wide range of topics including coding standards software validation user interface design and sensor modelling Describes techniques used in modern flight simulation including distributed architectures and the use of GPUs for real time graphics rendering Addresses unique aspects of flight simulation such as designing flight control systems visual systems and simulator instructor stations Includes a companion website with downloadable open source software and additional resources Flight Simulation Software is a must have guide for all developers and users of simulation tools as well as the ideal textbook for relevant undergraduate and postgraduate courses in computer science aeronautical engineering electrical engineering and mechanical engineering programs     Moody's Manual of Investments John Sherman Porter,1922 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54     *Allerton Park Institute* ,1992

**Moody's Manual of Investments: American and Foreign** ,1922     *Moody's Municipal & Government Manual* ,1922

**Scientific and Technical Aerospace Reports** ,1986     **National Union Catalog** ,1970 Includes entries for maps and atlases

**Travelling Facts** Caroline Baillie,Elizabeth C. Dunn,2004 Travelling Facts explores the production and distribution of facts their life cycles as well as the material networks through which they travel Acknowledging that facts are fallible and originate primarily in isolated laboratories and field sites the volume includes discussions about how facts are reassembled into practical knowledge how they translate locally and what lessons may be learned from those who attempt to regulate fact production and circulation in the face of the marked acceleration and expansion of digital technologies worldwide

**A Universal Language for Continuous Network Simulation** Thomas Fred Runge,1977     **The National Union Catalogs, 1963-** ,1964     *Computers, Control & Information Theory* ,1982     **Government Reports**

**Announcements & Index** ,1994-12      **Management Decision Making** A. Alan B. Pritsker,Charles Elliott Sigal,1983  
Pritsker and Sigal examine management decision making and the role network modeling can play in this process Focusing on Q GERT a simulation language designed for the modeling of procedural management systems they discuss model building related to production planning logistics and inventory control risk analysis and project planning as well as network graphics  
**Government Reports Announcements** ,1973      Programming for Habitability Wolfgang F. E. Preiser,1975  
Automatic Control and Computer Sciences ,1987

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