Automation By Marine Ocean Solutions

#Marine Automation #Ocean Automation #Maritime Solutions #Automated Marine Systems #Ocean Technology

Marine Ocean Solutions provides advanced automation technologies and systems for the maritime and oceanic industries. Our comprehensive solutions enhance operational efficiency, improve safety, and reduce environmental impact across various applications, including vessel control, subsea operations, and port management. We empower our clients with innovative technology that drives performance and sustainability in the marine environment.

Marine Robotics and Applications

This book reports on findings at the intersection between two related fields, namely coastal hydrography and marine robotics. On one side, it shows how the exploration of the ocean can be performed by autonomous underwater vehicles; on the other side, it shows how some methods from hydrography can be implemented in the localization and navigation of such vehicles, e.g. for target identification or path finding. Partially based on contributions presented at the conference Quantitative Monitoring of Underwater Environment, MOQESM, held on October 11-12, 2016, Brest, France, this book includes carefully revised and extended chapters presented at the conference, together with original papers not related to the event. All in all, it provides readers with a snapshot of current methods for sonar track registration, multi-vehicles control, collective exploration of underwater environments, optimization of propulsion systems, among others. More than that, the book is aimed as source of inspiration and tool to promote further discussions and collaboration between hydrographers, robotic specialists and other related communities.

Environmental Protection Research Catalog: Indexes

Most ocean vessels are underactuated but control of their motion in the real ocean environment is essential. Starting with a review of the background on ocean-vessel dynamics and nonlinear control theory, the authors' systematic approach is based on various nontrivial coordinate transformations coupled with advanced nonlinear control design methods. This strategy is then used for the development and analysis of a number of ocean-vessel control systems with the aim of achieving advanced motion control tasks including stabilization, trajectory-tracking, path-tracking and path-following. Control of Ships and Underwater Vehicles offers the reader: - new results in the nonlinear control of underactuated ocean vessels; - efficient designs for the implementation of controllers on underactuated ocean vessels; - numerical simulations and real-time implementations of the control systems designed on a scale-model ship for each controller developed to illustrate their effectiveness and afford practical guidance.

Control of Ships and Underwater Vehicles

The present analysis examines the legal framework for marine scientific research with a focus on research platforms

The Federal Plan for Meteorological Services and Supporting Research

Includes subject, agency, and budget indexes.

Marine Research

This text provides a collection of documents related to ocean affairs and the law of the sea. It is issued each year by organizations, organs and bodies of the United Nations system.

Ocean Prediction

The annual report of the President to the Congress on the nation's efforts to comprehend, conserve, and use the sea.

Marine Research, 1973

In the last few years, the quantity of books and papers on the political, economic and legal problems of the exploration and use of the sea and marine resources has considerably increased. But the status and activities of intern a tional organizations related to maritime shipping, fisheries, scientific research in the World Ocean and the protection of the marine environment have not yet, as a whole, been represented in the scientific and reference literature. It would be fair, though, to mention that some general information on marine international organizations may be found in the Yearbook of International Organizations, Brussels, 1979; in Annotated Acronyms and Abbreviations of Marine Science Related International Organizations, U. S. Department of Commerce, 1976; and in the UN Annotated Directory ofIntergovernmental Organizations Concerned with Ocean Affairs, 1976. Voluminous informa tion on organizations engaged in problems of the exploration and use ofthe sea is given in International Marine Organizations by the well-known Polish scientists Lopuski and Symonides, 1978. Meanwhile the increasing volume of practical work related to the participa tion of governmental and scientific bodies as well as individual scientists and specialists in these organizations, the necessity of long-term planning in this field, and the perspectives of the development of these organizations, make necessary a special publication depicting the structure and many-sided activi ties of such international bodies. This book is the first one in which the most complete information on the main marine international organizations is presented.

Inventory of Federal Energy-related Environment and Safety Research for ...

Inventory of Federal Energy-related Environment and Safety Research for FY 1978