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References; 2 Rubidium and Cesium in Organic Synthesis; 2.1 Introduction; 2.2 Organo-, Silyl-, Germyl-, and Stannylmetal; 2.3 Fluoride Ion Source; 2.3.1 Nucleophilic Fluorination; 2.3.2 Desilylation Reactions
2.3.2.1 Carbanion Equivalent Formation2.3.2.2 Desilylation-Elimination; 2.4 Electrophilic Fluorination - Cesium Fluorosulfate; 2.5 Cesium Salts as Bases; 2.6 Cesium Enolate; 2.7 Catalytic Use; 2.8 Conclusion; 2.9 References; 3 Magnesium in Organic Synthesis; 3.1 Introduction; 3.2 Preparation of Organomagnesium Compounds; 3.2.1 Preparation from Alkyl Halides and Mg Metal; 3.2.2 Preparation with Rieke Magnesium; 3.2.3 Transmetalation; 3.2.4 Sulfoxide-Magnesium Exchange (Ligand Exchange Reaction of Sulfoxides with Grignard Reagent); 3.2.5 Hydromagnesation
3.2.6 Metalation (Deprotonation from Strong Carbon Acids)3.2.7 Other Preparative Methods; 3.3 Reaction of Organomagnesium Compounds; 3.3.1 Reaction with Organomagnesium Amides; 3.3.1.1 Preparation of Magnesium Monoamides and Bisamides; 3.3.1.2 Reaction with Organomagnesium Amide; 3.3.2 Cp(2)TiCl(2)- or Cp(2)ZrCl(2)-catalyzed Reaction with Grignard Reagents; 3.3.3 Substitution at Carbon by Organomagnesium Compounds; 3.3.4 Addition to Carbon-Carbon Multiple Bonds; 3.3.5 Addition of Organomagnesium Compounds to Carbonyl Groups; 3.4 Halogen-Magnesium Exchange Reactions
3.4.1 Practical Examples of Halogen-Magnesium Exchange Reactions3.4.1.1 Perfluoro Organomagnesium Reagents; 3.4.1.2 Polyhalogenated Arylmagnesium Reagents; 3.4.1.3 Exchange of Polyhalomethane Derivatives; 3.4.1.4 Preparation of Magnesiated Nitrogen-Heterocycles; 3.4.1.5 Formation of Enolates by Halogen-Magnesium Exchange; 3.4.1.6 Miscellaneous Reactions; 3.4.2 iPrMgBr-induced Halogen-Magnesium Exchange for the Preparation of Polyfunctional Organomagnesium Reagents; 3.4.2.1 Exchange Reaction of Aryl Halides; 3.4.2.2 Exchange Reaction of Heterocyclic Halides
3.4.2.3 Exchange Reaction of Alkenyl Halides

Sommario/riassunto

This is the first handbook to cover in detail all aspects of this fascinating field of chemistry. In this handy two-volume set, readers will instantly find the information they need, clearly structured according to the individual metals in the main groups, hitherto only accessible after much time-consuming research. The result is in indispensable aid for everyday work in the lab.Alongside all the classical organic reactions, this book focuses on the modern variations as well as novel, current reactions in organic synthesis that are closely linked to main group elements - both stoechiometri

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Autore	Widjaja Raden Sjarief
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Sandwich Ship Structures -- Debonding Localization Assessment on Rectangular Sandwich Plates Using the Mode Shape Curvature Square Method -- Technical and Financial Feasibility Analysis of a Tidal Currents Power Plant -- Stress Concentration Factor Analysis for Welded Marine Structures: Benchmark Study on Utilization of Integrated 3D Laser Scanning and Finite Element Simulation -- A Numerical Study of the Sensitivity of Damage Conditions on the Turret Mooring to Motion Responses of Floating Liquified Natural Gas Systems and Axial Tensions of Mooring Lines -- The Effect of Hoses Shape on End-Loads in Chinese Lantern Type of Subsea Hoses Based on Hydrodynamics Simulation -- Analysis of Hydrodynamic Motion Behavior at Various Porosities on Porous Single-Slope Floating Breakwaters -- Computational Fluid Dynamics Wave Reflection on Porous Double-Slope Floating Breakwaters -- Longitudinal Bending Strength in a High-Density Polyethylene Boat Hull due to Operational Condition -- Identification of Debonding Propagation in Ship Deck Sandwich Materials – Experimental Investigation -- Numerical Study of the Effect of Tilt and Yaw Sofa Angles on Boiler Rear Pass Temperature Deviation and NOx Content on a Tangentially Fired Pulverized Coal Boiler at Negative Tilt Burner Angle -- Numerical Study of Optimal Combustion in a Tangentially-Fired Boiler Coal Boiler by Considering the Rear Pass Temperature -- Design and Evaluation of Silt Curtains and Geotextile for Minimizing Environmental Impact of Dredging Projects -- A Wind-Assisted Propulsion Ship within the Framework of Energy Efficiency and Decarbonization: An Overview -- Mechanisms of Bubbles Coalescence in a Circular Static Liquid Column -- Train Wheelset Vibration Effect to Pregnant Women: Review of Detection Methods to Minimize the Vibration Impact Towards Fetus Development -- Biosensor–Based Microfluidic Chip Fabrication for the treatment of Microbacteria in Women -- Liquefied Petroleum Gas Monitoring System -- Optimization of Forward Diving Plane Locations for a Fully Submerged Submarine -- Lifting Analysis of a Fixed Jacket Structure -- Investigation of Microstructure, Corrosion Behavior, and Hardness in Sensitized AISI 316 Stainless Steel Subjected to Solution Annealing -- Wafer Defects Inspection Using Image Processing Techniques -- Simulation Study on the Effect of Different Heat Sink Profiles for Energy Harvesting Application -- Harnessing LSTM for Nonlinear Current Modeling in Smart Energy Systems -- Hybrid CFD-NNARX Modeling of a Magnetorheological Fluid Single Valve -- Analysis of Active Compounds and Microbial Activity of Toothpaste Formulated from Citrus Hystrix and Lagenaria Siceraria.

Sommario/riassunto

This book explores a variety of research topics in marine technology delving into a wide array of crucial research topics within the maritime industry and its technology, encapsulating the latest research findings presented at The 8th International Conference on Marine Technology (SENTA 2023). It provides the exchange of recent knowledge, experiences, and innovations in the field of marine science and technology encompassing naval architecture and technology; marine system and safety; ocean, coastal, and offshore engineering; shipping, port, and maritime logistics; underwater technology; and advanced technology in maritime industry. This book covers studies ranging from ship design and production technique comprising ship design process, ship hydrodynamics, ship structure and advanced ship material, and ship management and production technology. The book also examines the invention in marine operation, marine machinery and maintenance system, and marine safety including digital technology in marine system and safety. It also addresses the topics on coastal, ocean, and offshore technology starting from coastal/offshore hydrodynamics,

ocean energy, mooring line analysis to offshore structure analysis. In addition, shipping, port, and marine logistic researches are also conveyed in this book especially on shipping operation optimization, port development, green port, and smart shipping development. Moreover, underwater technology and advanced technology in marine industry i.e. computer vision technology for underwater vehicles, digital technology on ship design and production, and advanced computer technology in port and shipping development are discovered. In overall, this book offers a cradle for the exchange of ground-breaking ideas, fostering collaboration, and potentially setting the stage for significant developments in the marine technology.