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| | Edizione | [Fourth edition.] |
| | Descrizione fisica | 1 online resource (xiii, 446 pages) : illustrations |
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| | Nota di contenuto | Cover; Introduction to Naval Architecture, Fourth Edition; Contents; Preface to the fourth edition; Acknowledgements; 1 Introduction; Ships; Naval architecture and the naval architect; The impact of computers; 2 Ship design; The requirements; Design; Costs; Developing the design; The design process; Analysis of a design; Availability; The impact of technology and computers; Some general design attributes; Safety; Damage scenarios; Action by the designer; The safety case; Vulnerability; Summary; 3 Definition and regulation; Definition; The geometry; Representing the hull form<br>Hull characteristics Displacement and tonnage; Displacement; Deadweight; Tonnage; Regulation; Load lines; Passenger ships; The International Maritime Organisation (IMO); Classification societies; Impact of rules and regulations on design; Accident investigations; Summary; 4 Ship form calculations; Approximate integration; Trapezoidal rule; Simpson's rules; Other Simpson's rules; Tchebycheff's rules; General; Polar co-ordinates; Spreadsheets; Summary; 5 Flotation and initial stability; Equilibrium; Equilibrium of a body floating in still water; Underwater volume; Stability at small angles<br>Transverse metacentre Transverse metacentre for simple geometrical forms; Metacentric diagrams; Longitudinal stability; Hydrostatic curves; Fully submerged bodies; Problems in trim and stability; Determination of displacement from observed draughts; Longitudinal position of the centre of gravity; Direct determination of displacement and position of |

| Sommario/riassunto | The fundamentals of naval architecture are essential knowledge not only for Naval Architects but a wide range of professionals: Ship Designers, Marine Engineers and senior crew (Ship's Engineers and Commanders). Written by the former Chief Engineer with the Admiralty Research Establishment and past Vice-President of the Royal Institution of Naval Architects, this book is fully revised to take account of advances in the field. It offers a clear and concise introduction to the subject, making it a key text for both students and practising professionals in all of the above fields.* Covers |