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| Nota di contenuto | The early development of the screw propeller -- Propulsion systems -- Propeller geometry -- The propeller environment -- The ship wake field -- Propeller performance characteristics -- Theoretical methods : basic concepts -- Theoretical and analytical methods relating to propeller action -- Cavitation -- Propeller noise -- Propeller, ship and rudder interaction -- Resistance and propulsion -- Thrust augmentation deveices -- Transverse thrusters -- Azimuthing and podded propulsors -- Waterjet propulsion -- Full-scale trials and measurement techniques -- Propeller materials -- Propeller blade strength -- Propeller manufacture -- Propeller blade vibration -- Propeller design -- Operational problems -- Service performance and analysis -- Propeller-ice interaction and operation -- Propeller tolerances and inspection -- Proeller maintenance and repair. |
| Sommario/riassunto | Marine Propellers and Propulsion, Fourth Edition, offers comprehensive, cutting edge coverage to equip marine engineers, naval architects or anyone involved in propulsion and hydrodynamics with essential job |

knowledge. Propulsion technology is a complex, multidisciplinary topic with design, construction, operational and research implications. Drawing on experience from a long and varied career in consulting, research, design and technical investigation, John Carlton examines hydrodynamic theory, materials and mechanical considerations, and design, operation and performance. Connecting essential theory to practical problems in design, analysis and operational efficiency, the book is an invaluable resource, packed with hard-won insights, detailed specifications and data.
