Vibration

Type de contenu : Texte

Type de médiation : sans médiation

Type de support : Volume

Titre(s) : Vibration / William S. Vorus ; J. Randolph Paulling, editor

Autre type de relation : Principles of naval architecture Volume II Resistance, propulsion and vibration Edward V. Lewis, editor 3rd edition 1 vol. (VI-327 p.) 0-939773-01-5

Auteur(s) : Vorus, William S. (1940-....)

Autre(s) responsabilité(s) : Paulling, J. Randolph (1930-....) (Éditeur scientifique)

Publication : Jersey City (N.J.) : Society of Naval Architects and Marine Engineers

Date de copyright : C 2010

Description matérielle : 1 vol. (XVI-65 p.) : ill. ; 28 cm

Collection : Principles of naval architecture

ISBN : 9780939773756

EAN : 9780939773756

Appartient à la collection : Principles of naval architecture Jersey City (N.J.) Society of Naval Architects and Marine Engineers 2010

Classification décimale Dewey : 623.8/171 22

Note sur les zones de lien : Révision du chap. 7 de Principles of naval architecture. Volume II, Stability and strength / Edward V. Lewis, editor, 1988

Note sur les bibliographies et les index : Réf. bibliographiques p. 60-62. Index

Résumé ou extrait : "This volume of the series Principles of naval architecture presents the principles underlying analysis of the vibration characteristics of modern seagoing ships and the application of those principles in design and problem solving. The classical continuous beam model with steady state response to periodic excitation is presented first. This includes natural frequencies, mode shapes and modal expansion. Discrete analysis is next presented based upon finite element principles. Examples are

discussed involving analysis of the entire ship and component parts, e.g., the deckhouse. The principal sources of excitation are usually the propulsion machinery and the propeller and methods of predicting the forces and moments produced by each are presented. There are sections on vibration surveys, sea trials, acceptable vibration standards and criteria. Concluding sections treat methods of remediation of vibration problems that are found after the ship is completed, including modifications to propeller design, structure and machinery."

Sujet - Nom commun : Architecture navale
Navires -- Vibrations