Preface

Prediction of vortex-induced oscillation of cylinders in oscillatory flow p. 3
Hydroelasticity of tensioned buoyant platform tethers at low and negative tension p. 17

Vortex-induced vibrations in a sheared flow: A new predictive method p. 31
Riser response to vertical current profiles and regular waves p. 39
Response analysis of slender drilling conductors p. 47
Collision criteria for deep-sea TLP riser arrays p. 55
Response calculation using an enhanced model for structural damping in flexible risers compared with full scale measurements p. 63
A study of the dynamics of hanging marine risers p. 75
Dynamic analysis of mooring underwater cable lines p. 85
Vortex shedding induced oscillations during pipe laying p. 97
Vortex shedding induced oscillations on pipelines resting on very uneven seabeds: Predictions and countermeasures p. 115
Vortex-induced vibrations of structural members in unsteady winds p. 131
Bending moment of ship hull girder caused by pulsating bubble of underwater explosion p. 149

Speed dependence of the natural modes of an elastically scaled ship model p. 157
Characteristics of hydrodynamic loads data for a naval combatant p. 169
Wave-induced springing and whipping of high-speed vessels p. 191
Slamming loads on wetdecks of multihull vessels p. 205
Structural response analysis of cylinders under water impact p. 221
Hydroelastic analysis of a SWATH in waves p. 231
Hydroelastic response analysis of a high speed monohull p. 245
Hydrodynamic added mass of a floating vibrating structure p. 261
Fabric as construction material for marine applications p. 275
Hydroelastic analyses of a long flexible tube in waves p. 287
Computation of wave induced motions on a flexible container p. 301
Hydroelastic analysis of surface effect ship (SES) seals p. 311
Hydroelastic behavior of the flexible bag stern seal of a SES p. 323
Effects of combination motions on hydrodynamic forces induced on bodies in the sea p. 339

A preliminary to the design of a hydroelastic model of a floating airport p. 351
The motions performance of a mat-like floating airport p. 363
Influence of flexibility on the motions and deflections of an airport-oriented floating long offshore structure p. 377
Hydroelastic response of a floating runway p. 389
Wave drifting forces on multiple connected floating structures p. 403
Hydroelastic analyses of a structure supported on a large number of floating legs p. 417
Dynamic response of flexible circular floating islands subjected to stochastic waves and seakakes p. 433
Author index p. 446