

1. Record Nr.	UNINA9910827765403321
Autore	Iooss Gerard
Titolo	Small divisor problem in the theory of three-dimensional water gravity waves // Gerard Iooss, Pavel I. Plotnikov
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2009 ©2009
ISBN	1-4704-0554-7
Descrizione fisica	1 online resource (144 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; Volume 200, Number 940
Disciplina	532.593
Soggetti	Water waves Gravity waves Multiphase flow - Mathematical models Pseudodifferential operators Boundary value problems Bifurcation theory Small divisors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 200, Number 940 (fifth of 6 numbers)."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""3.3. Main orders of the diffeomorphism and coefficient v""""Chapter 4. Small Divisors. Estimate of L a€? Resolvent"; ""4.1. Proof of Theorem 4.10"; ""Chapter 5. Descent Method-Inversion of the Linearized Operator"; ""5.1. Descent method"; ""5.2. Proof of Theorem 5.1""; ""5.3. Verification of assumptions of Theorem 5.1""; ""5.4. Inversion of L"";< ""Chapter 6. Nonlinear Problem. Proof of Theorem 1.3""; ""Appendix A. Analytical study of G[sub(n)]""; ""A.1. Computation of the differential of G[sub(n)]""; ""A.2. Second order Taylor expansion of G[sub(n)] in n = 0""; ""Appendix B. Formal computation of 3-dimensional waves""""B.1. Formal Fredholm alternative"; ""B.2. Bifurcation equation"; ""Appendix C. Proof of Lemma 3.6"; ""Appendix D. Proofs of Lemmas 3.7 and 3.8"; ""Appendix E. Distribution of Numbers {I?[sub(0)]n[sup(2)]}""; ""Appendix F. Pseudodifferential Operators""; ""Appendix G. Dirichlet-Neumann Operator""; ""Appendix H. Proof of Lemma 5.8""; ""Appendix

