

1. Record Nr.	UNINA9910739450103321
Autore	Priour Daniel
Titolo	Finite element method for netting : application to fish cages and fishing gear / / Daniel Priour
Pubbl/distr/stampa	Dordrecht, : Springer Science, c2013
ISBN	94-007-6844-3
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (112 p.)
Collana	Springer briefs in environmental science
Disciplina	333.7
Soggetti	Fishing nets - Design and construction Fishing - Equipment and supplies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction -- 2. Finite element method -- 3. Equilibrium calculation -- 4. The triangular finite element for netting -- 5. The bar finite element for cable -- 6. The node element -- 7. Validation.
Sommario/riassunto	This book fully describes a finite element method for netting. That describes the relation between forces and deformation of the netting. That takes into account forces due to the twine elasticity, the hydrodynamic forces, the catch effect, the mesh opening stiffness. This book is divided in 5 parts. The first section contains introduction on the finite element method, the second part is about equilibrium calculation, the third presents a triangular element for netting, the fourth and fifth are for cable and node element. The sixth presents few validation cases.