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Descrizione fisica	1 online resource (xix, 353 pages) : digital, PDF file(s)
Collana	Cambridge companions to culture
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Nota di contenuto	Introduction: French culture and society in the twentieth century / Nicholas Hewitt -- Modern France: history, culture and identity, 1900-1945 / Nicholas Hewitt -- Culture and identity in postwar France / Giles Bousquet and Alain Pessin -- Architecture, planning and design / Anthony Sutcliffe -- The mass media / Jean-Claude Sergeant -- Consumer culture: food, drink and fashion / Hugh Dauncey and Keith Reader -- Language: divisions and debates / Rodney Ball -- Intellectuals / William Paulson -- Religion, politics and culture in France / Michael Kelly -- The third term: literature between philosophy and critical theory / Steven Ungar -- Narrative fiction in French / Mireille Rosello and Jean Mainil -- Poetry / Michael Bishop -- Theatre / Christophe Campos -- Music / Colin Nettelbeck -- The visual arts / Sarah Wilson -- Cinema / Jill Forbes and Sue Harris.
Sommario/riassunto	France entered the twentieth century as a powerful European and colonial nation. In the course of the century, her role changed dramatically: in the first fifty years two World Wars and economic decline removed its status as a world power, whilst the immediate post-war era was marked by wars of independence in its colonies. Yet at the same time, in the second half of the century, France entered a

period of unprecedented growth and social transformation. Throughout the century and into the new millennium France retained its former international reputation as a centre for cultural excellence and innovation and its culture, together with that of the Francophone world, reflected the increased richness and diversity of the period. This 2003 Companion explores this vibrant culture, and includes chapters on history, language, literature, thought, theatre, architecture, visual culture, film and music, and discuss the contributions of popular culture, Francophone culture, minorities and women.

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Autore

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Ahmadian Amir Sharif

Numerical models for submerged breakwaters : coastal hydrodynamics and morphodynamics / / Amir Sharif Ahmadian

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Breakwaters

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Morphogenesis - Mathematical models

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Includes bibliographical references and index.

Front Cover; Numerical Models for Submerged Breakwaters; Copyright Page; Contents; 1 Introduction; 1.1 Coastal Erosion and Defense; 1.2 Submerged Breakwaters for Coast Protection; 1.3 Coastal Processes and Submerged Breakwaters; 1.4 Numerical Modeling for Submerged Breakwaters; 1.5 Purposes and Significances; 1.6 Main Objectives of Book; 1.7 Layout of Book; References; 2 Fundamental Concepts; 2.1 Introduction; 2.2 Physical Parameters Related to Submerged

Breakwaters; 2.3 Physical Processes in The Presence of Submerged Breakwaters; 2.4 Performance of The Submerged Breakwaters; References

3 Literature Review and BackgroundReferences; 4 Theories and Methodologies; 4.1 Introduction; 4.2 Traditional Models for Water Waves; 4.3 New Approaches; 4.3.1 Meshless Methods; 4.3.2 Artificial Intelligence Methods; MLP Networks; Back-Propagation Algorithm; Levenberg-Marquardt Algorithm; RBF Networks; References; 5 Mathematical Modeling and Algorithm Development; 5.1 Navier-Stokes Equations; 5.2 The Turbulent Model; 5.3 Initial and Boundary Conditions; 5.4 Shallow Waters; 5.5 The Extended Mild-Slope Equation; 5.6 Boussinesq Equations; 5.7 Smoothed Particles Hydrodynamics 5.8 Artificial Neural Networks5.8.1 MLP Model; Algorithm Derivation; Transfer Function; 5.8.2 RBF Model; References; 6 Numerical Methods and Procedures; 6.1 Introduction; 6.2 Finite Difference Method; 6.2.1 Discretization of Equations; 6.2.2 Grids; 6.2.3 The Discretizations in Time; 6.3 Finite Volume Method; The Finite Volume Method for the Navier-Stokes Equations; 6.4 Artificial Neural Networks Modeling; 6.4.1 MLP Training Process; 6.4.2 RBF Network Training; References; 7 Numerical Modeling and Simulation; 7.1 Modeling the Shallow Water Equations; 7.1.1 Setting Up; 7.1.2 Calibration 7.1.3 Simulation7.2 Modeling with Neural Networks; 7.2.1 Data Preparation; 7.2.2 Data Set and Selection; 7.2.3 Variable Selection; 7.2.4 Data Division; 7.2.5 Data Transformation; 7.2.6 Model Set-Up and Calibration; 7.2.7 Multilayer Perceptrons; 7.2.8 Radial Basis Function Networks; 7.2.9 Performance Analysis and Comparison; 2D Model; Accuracy Analysis; Sensitivity Analysis; Comparison with Other Empirical Formulae; 3D Model; Accuracy Analysis; Sensitivity Analysis; Comparison with Available Approach; References; 8 Design Model Development and Analysis; 8.1 Experimental Data 8.1.1 Two-Dimensional ExperimentsTests in 0.45m Wide Flume; Tests in 1.2m Wide Flume; 8.1.2 Three-Dimensional Experiments; Small-Scale Model; Large-Scale Model; 8.1.3 Experiments without Breakwater; 8.1.4 Experiments with Breakwater; 8.2 Analysis Approaches for ann Model Results; 8.2.1 The Root-Mean-Square Transmitted Wave Height ( $H_t, rms$ ); 8.2.2 Wave Transmission Coefficient ( $K_t$ ); 8.2.3 Dimensional Analysis; 8.2.4 Nondimensional Analysis; 8.2.5 Accuracy Analysis; Interpolation; Extrapolation; Larger Scale; 8.2.6 Sensitivity Analysis; 8.3 Development of Shallow Water Equations Model 8.3.1 Description (Shallow Water Equations)

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