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| Autore                  | Timbadiya P. V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Titolo                  | Flood Forecasting and Hydraulic Structures : Proceedings of 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021) // edited by P. V. Timbadiya, Prem Lal Patel, Vijay P. Singh, Vivek L. Manekar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Descrizione fisica      | 1 online resource (647 pages)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Collana                 | Lecture Notes in Civil Engineering, , 2366-2565 ; ; 340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Altri autori (Persone)  | PatelPrem Lal<br>SinghV. P (Vijay P.)<br>ManekarVivek L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Disciplina              | 627                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Soggetti                | Environmental engineering<br>Civil engineering<br>Engineering geology<br>Environmental Civil Engineering<br>Geoengineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Nota di contenuto       | Impact of Encroachment of Floodplains of Adyar River on Chennai Floods -- Modeling of Flood Inundation Extent in Data-scare Regions: The Case Study of Bhavnagar District -- Hydrodynamic Modelling and Satellite Altimeter based Establishment of Virtual Gauging Network in Flood Prone River Basin -- Flood Inundation Mapping using 2D Hydrodynamic Model and GIS Technique for Lower Tapi Basin, India -- Unsteady Flood Modelling using HEC-RAS: Chaliyar River Basin, Kerala -- 2D Flood Simulation and Mapping using Hydraulic Model and GIS Technology -- Use of Big Data for Flood Assessment through HEC-RAS Model: A Study of Purna River of Navsari -- Flood Mitigation in and around Sangli, Maharashtra by Modification of River Meander Geometry -- Performance Evaluation of 2D Hydrodynamic Model for Lower Narmada River Basin, India -- UAV (Drone) for Preparation of High Resolution DEM/DTM -- A Case Application of Post Flood Assessment of |

Dhanera City, Rel River Catchment -- Computation of Socio-economic Vulnerability for Densely Populated Surat City, India -- Two Dimensional Flood Inundation Mapping under Overtopping Failure of Umrar Dam Effect of Terrain Resolution and Sensitivity Analysis.

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#### Sommario/riassunto

This book comprises the proceedings of the 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2021) focusing on broad spectrum of emerging opportunities and challenges in the field of flood forecasting and hydraulic structures. It covers a range of topics, including, but not limited to, early warning system, urban flood modelling and management, dam hazard classification, river training and protection works, structural and non-structural measures for flood mitigation, assessment and development of flood vulnerability, hazard and risk maps rehabilitation of old dams, streamflow turbines, canal operation and related structure, operation and management of dams including their instrumentation etc. Presenting recent advances in the form of illustrations, tables, and text, it offers readers insights for their own research. In addition, the book addresses fundamental concepts and studies in the field of flood forecasting and hydraulic structures, making it a valuable resource for both beginners and researchers wanting to further their understanding of hydraulics, water resources and coastal engineering.

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