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Titolo	Integrated emergency management for mass casualty emergencies : proceedings of the NATO Advanced Training Course on Integrated Emergency Management for Mass Casualty Emergencies organized by CESPRO, University of Florence, Italy // edited by David Alexander, Emmanuela Masini, and Laura Mugnai
Pubbl/distr/stampa	Amsterdam ; ; Washington, DC : , : IOS Press, , [2013] ©2013
ISBN	1-61499-311-4
Descrizione fisica	1 online resource (116 p.)
Collana	NATO science for peace and security series - E: Human and societal dynamics ; ; volume 113
Altri autori (Persone)	AlexanderDavid MasiniEmmanuela MugnaiLaura
Disciplina	362.18
Soggetti	Disasters Emergency management England London Spain Madrid
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	""INTEGRATED EMERGENCY MANAGEMENT FOR MASS CASUALTY EMERGENCIES""; ""Preface""; ""Contents""; ""Perspectives on Integrated Emergency Response""; ""Hospital Response and Natural Disasters""; ""The Role of Hospitals in the International Disaster Response""; ""Optimal fluid administration in pre-hospital field""; ""Disasters and Mass Casualty Incidents: The Dual use of Field Hospitals. The Experience of the Italian Alpini Field Hospital during Disasters""; ""Integrated Response to CBRN Mass-Casualty Events""; ""Response To Nuclear Mass Casualty Events: The Nuclear Medical Approach"" ""A novel approach to hospital evacuation: the role of trained medical students"" ""Emergency medical management at the Madrid train bombings1""; ""Emergency medical and public health responses to the 2005 London bombings""; ""Interactive Didactics: a€œAuxilium!a€?""

Simulation Game"; "Subject Index"; "Author Index"

Sommario/riassunto

Responses to major disasters tend to be complex, not merely because of the size and scale of operations and the number of countries and agencies involved, but also because of the range of functions represented by these organizations. A full-scale emergency response can involve people trained in at least 35 different disciplines and professions. This increasing sophistication of modern emergency response makes the process of coordination a particularly challenging one. It involves matching urgent needs with available resources in the most rapid and efficient way possible: timely mobilization an

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Titolo

Application of holomorphic functions in two and higher dimensions // by Klaus Gürlebeck, Klaus Habetha, Wolfgang Sprößig

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Descrizione fisica

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Disciplina

515.72

Soggetti

Integral transforms
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Functions of complex variables
Differential equations, Partial
Functional analysis
Integral Transforms, Operational Calculus
Functions of a Complex Variable
Partial Differential Equations
Functional Analysis

Lingua di pubblicazione

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Nota di bibliografia

Includes bibliographical references and index.

Nota di contenuto

1.Basic Properties of Holomorphic Functions -- 2.Conformal and Quasi-conformal Mappings -- 3.Function Theoretic Function spaces --

4.Operator Calculus -- 5.Decompositions -- 6.Some First Order Systems of Partial Differential Equations -- 7.Boundary Value Problems of Second Order Partial Differential Equations -- 8.Some Initial-boundary Value Problems -- 9.Riemann-Hilbert Problems -- 10.Initial Boundary Value Problems on the Sphere -- 11.Fourier Transforms -- Bibliography -- Index.

Sommario/riassunto

This book presents applications of hypercomplex analysis to boundary value and initial-boundary value problems from various areas of mathematical physics. Given that quaternion and Clifford analysis offer natural and intelligent ways to enter into higher dimensions, it starts with quaternion and Clifford versions of complex function theory including series expansions with Appell polynomials, as well as Taylor and Laurent series. Several necessary function spaces are introduced, and an operator calculus based on modifications of the Dirac, Cauchy-Fueter, and Teodorescu operators and different decompositions of quaternion Hilbert spaces are proved. Finally, hypercomplex Fourier transforms are studied in detail. All this is then applied to first-order partial differential equations such as the Maxwell equations, the Carleman-Bers-Vekua system, the Schrödinger equation, and the Beltrami equation. The higher-order equations start with Riccati-type equations. Further topics include spatial fluid flow problems, image and multi-channel processing, image diffusion, linear scale invariant filtering, and others. One of the highlights is the derivation of the three-dimensional Kolosov-Mushkelishvili formulas in linear elasticity. Throughout the book the authors endeavor to present historical references and important personalities. The book is intended for a wide audience in the mathematical and engineering sciences and is accessible to readers with a basic grasp of real, complex, and functional analysis.
