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Autore	Pirazzi, Renzo
Titolo	Osservazioni sul simbiote azotofissatore di Alnus cordata / Renzo Pirazzi
Pubbl/distr/stampa	Roma : Società Agricola e Forestale, 1984
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Collana	Quaderni di ricerca / Centro di sperimentazione agricola e forestale, Istituto di sperimentazione per la pioppicoltura ; 3
Disciplina	634.973 976
Locazione	FAGBC
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2. Record Nr.	UNIBAS000014289
Titolo	Global analysis : studies and applications 1. / edited by Yu. G. Borisovich, Yu. E. Gliklikh
Pubbl/distr/stampa	Berlin [etc.] : Springer, 1984
ISBN	3-540-13910-9
Descrizione fisica	301 p. ; 25 cm.
Collana	Lecture notes in mathematics ; 1108
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Soggetti	Analisi matematica
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3. Record Nr.	UNINA9910438146203321
Autore	Freeden W (Willi)
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Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (504 p.)
Collana	Applied and numerical harmonic analysis
Altri autori (Persone)	GuttingMartin
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Nota di bibliografia

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Nota di contenuto

1 Introduction: Geomathematical Motivation -- Part I: Auxiliary Functions -- 2 The Gamma Function -- 3 Orthogonal Polynomials -- Part II: Spherically Oriented Functions.- 4 Scalar Spherical Harmonics in  $R^3$  -- 5 Vectorial Spherical Harmonics in  $R^3$  -- 6 Spherical Harmonics in  $R^q$  -- 7 Classical Bessel Functions -- 8 Bessel Functions in  $R^q$  -- Part III: Periodically Oriented Functions -- 9 Lattice Functions in  $R$  -- 10 Lattice Functions in  $R^q$  -- 11 Concluding Remarks -- References -- Index.

Sommario/riassunto

Special functions enable us to formulate a scientific problem by reduction such that a new, more concrete problem can be attacked within a well-structured framework, usually in the context of differential equations. A good understanding of special functions provides the capacity to recognize the causality between the abstractness of the mathematical concept and both the impact on and cross-sectional importance to the scientific reality. The special functions to be discussed in this monograph vary greatly, depending on the measurement parameters examined (gravitation, electric and magnetic fields, deformation, climate observables, fluid flow, etc.) and on the respective field characteristic (potential field, diffusion field, wave field). The differential equation under consideration determines the type of special functions that are needed in the desired reduction process. Each chapter closes with exercises that reflect significant topics, mostly in computational applications. As a result, readers are not only directly confronted with the specific contents of each chapter, but also with additional knowledge on mathematical fields of research, where special functions are essential to application. All in all, the book is an equally valuable resource for education in geomathematics and the study of applied and harmonic analysis. Students who wish to continue with further studies should consult the literature given as supplements for each topic covered in the exercises.