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Titolo	Generalized associated Legendre functions and their applications [[electronic resource] /] / Nina Virchenko, Iryna Fedotova
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Altri autori (Persone)	Fedotovalryna
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 183-191) and index.
Nota di contenuto	Foreword; Preface; Contents; 1. A general information on Legendre functions; 2. The generalized associated Legendre functions; 3. The series representations of the generalized associated Legendre functions; 4. Relations between different solutions of the generalized Legendre equation. Wronskians of linearly independent solutions; 5. Relations between contiguous generalized associated Legendre functions; 6. Differential operators generated by the generalized associated Legendre equation 7. Asymptotic formulas for the generalized associated Legendre functions in a neighborhood of singular points8. Asymptotic representations of the generalized associated Legendre functions as functions of parameters; 9. Integral representations of the generalized associated Legendre functions of the first kind; 10. Integral representations of the generalized associated Legendre functions of the second kind; 11. Zeros of the generalized associated Legendre functions; 12. Connection of the generalized associated Legendre functions with the Jacobi functions 13. Integral relations and series with the generalized associated Legendre functions14. Relations between the generalized associated

Legendre functions Bessel functions elliptic integrals and incomplete B-functions; 15. Integral transforms with the generalized associated Legendre functions; 16. Dual integral equations with the generalized Legendre function of the first kind $P_{m,n}^{-1/2+i(ch)}$; 17. Dual integral equations with $P_{m,n}^{-1/2+i(ch)}$ and the weight function $[1 + G()]$; 18. Triple integral equations with the generalized Legendre function of the first kind $P_{m,n}^{-1/2+i(ch)}$; 19. Hybrid dual integral equations; 20. Systems of triple integral equations with the generalized associated Legendre functions of the first kind $P_{m,n}^{-1/2+i(ch)}$; 21. On a property of the fractional Riemann-Liouville integral of $P_{m,n}^{-k}(z)$; 22. On some generalized integral operators of Buschman-Erdelyi's type; 23. Factorization of integral operators with the generalized associated Legendre functions and its application for solving integral equations; 24. Some generalizations of integral transforms of Mehler-Fock type and their applications; 25. Examples of the integrals involving the generalized associated Legendre functions; Appendix. The hypergeometric function; Bibliography; Subject index

Sommario/riassunto

The various types of special functions have become essential tools for scientists and engineers. One of the important classes of special functions is of the hypergeometric type. It includes all classical hypergeometric functions such as the well-known Gaussian hypergeometric functions, the Bessel, Macdonald, Legendre, Whittaker, Kummer, Tricomi and Wright functions, the generalized hypergeometric functions ${}_2F_q$, Meijer's G-function, Fox's H-function, etc. Application of the new special functions allows one to increase considerably the number of problems whose solutions are found in a closed

2. Record Nr.	UNISA996383908803316
Autore	Salmon William <1644-1713.>
Titolo	latrica, seu, Praxis medendi [[electronic resource]] : the practice of curing diseases : being a medicinal history of near two hundred famous observations in the cure of diseases, performed by the author hereof : whereunto is added, by way of scholia, a compleat theory or method of precepts, wherein the names, definitions, kinds, signs, causes, prognosticks, and various ways of cure are methodically instituted, digested and reduced to vulgar practice : to which is newly added as an appendix, observations upon the lethargy, carus, frenzy, madness, defects of the internal senses, and hurts of the external senses : with several remarks worthy consideration : and a catalogue of the authors works ... / / performed by William Salmon .
Pubbl/distr/stampa	London, : Printed for Nath. Rolls ..., 1694
Descrizione fisica	[18], 795, [1] p
Soggetti	Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index. "Contents" inserted between p. 762 and 763. Errata: p. [1] at end. Numerous errors in pagination. Reproduction of original in the Cambridge University Library.
Sommario/riassunto	eebo-0021