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Analysis Of Dirac Systems And

Analysis of Dirac Systems and Computational Algebra (Progress in Mathematical Physics) Softcover reprint of the original 1st ed. 2004 Edition. Analysis of Dirac Systems and Computational Algebra (Progress in Mathematical Physics) Softcover reprint of the original 1st ed. 2004 Edition. by Fabrizio Colombo (Author), Irene Sabadini (Contributor), Franciscus Sommen (Contributor),

Analysis of Dirac Systems and Computational Algebra ...

The main treatment is devoted to the analysis of systems of linear partial differential equations with constant coefficients, focusing attention on null solutions of Dirac systems. In addition to their usual significance in physics, such solutions are important mathematically as an extension of the function theory of several complex variables.

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Analysis of Dirac Systems and Computational Algebra. We have a dedicated site for Germany. Authors: Colombo , F. The subject of Clifford algebras has become an increasingly rich area of research with a significant number of important applications not only to mathematical physics but to numerical analysis, harmonic analysis, and computer science.

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"The main treatment in this work is devoted to the analysis of systems of linear partial differential equations with constant coefficients, focusing attention on null solutions of Dirac systems. In addition to their usual significance in physics, such solutions are important mathematically as an extension of the function theory of several complex variables.

Analysis of Dirac systems and computational algebra (Book ...

Spectral analysis of quantum Dirac systems Nihal Yokus, Nimet Coskun Department of Mathematics, Karamanoglu Mehmetbey University, 70100 Karaman, Turkey. Communicated by N. Shahzad Abstract In this study, we establish the quantum calculus analogue of the classical Dirac system. Moreover, we investigate the Jost

Spectral analysis of quantum Dirac systems

Clifford analysis, using Clifford algebras named after William Kingdon Clifford, is the study of Dirac operators, and Dirac type operators in analysis and geometry, together with their applications. Examples of Dirac type operators include, but are not limited to, the Hodge-Dirac operator, $d + * d *$ $\{\displaystyle d + \{star\} d \{star\}\}$ on a Riemannian manifold, the Dirac operator in euclidean space and its inverse on C_0^∞ $\{\displaystyle C_{0}^{\infty}\}$ and their conformal ...

Clifford analysis - Wikipedia

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Home - Dirac

In mathematics and quantum mechanics, a Dirac operator is a differential operator that is a formal square root, or half-iterate, of a second-order operator such as a Laplacian. The original case which concerned Paul Dirac was to factorise formally an operator for Minkowski space, to get a form of quantum theory compatible with special relativity; to get the relevant Laplacian as a product of ...

Dirac operator - Wikipedia

* The main treatment is devoted to the analysis of systems of linear partial differential equations (PDEs) with constant coefficients, focusing attention on null solutions of Dirac systems * All the necessary classical material is initially presented * Geared toward graduate students and researchers in (hyper)complex analysis, Clifford analysis, ...

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Plasmonics in Dirac systems: from graphene to topological ...

In mathematics, the Dirac delta function (δ function) is a generalized function or distribution introduced by physicist Paul Dirac. It is used to model the density of an idealized point mass or point charge as a function equal to zero everywhere except for zero and whose integral over the entire real line is equal to one.

Dirac delta function - Wikipedia

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