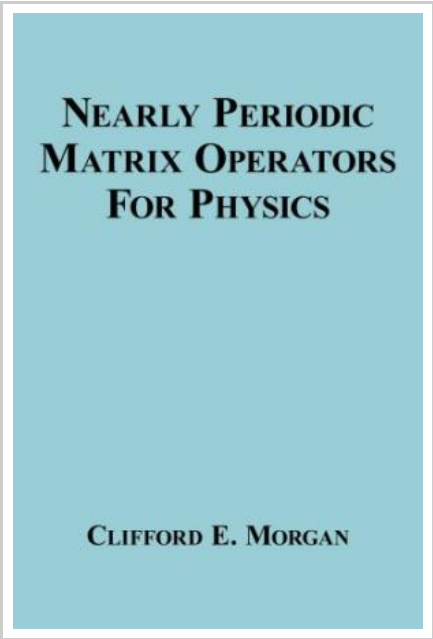

Nearly Periodic Matrix Operators For Physics (Paperback)

By Clifford E Morgan

AUTHORHOUSE, United States, 2007. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.The first seven chapters of the book build a case of the validity of certain matrix operators in theoretical physics. A simple, generalized Lorentz transformation, that yields correct results in every case and leads to a generalized relativistic velocity vector addition rule, was discovered. The addition rule leads, in its turn, to an electron spin model with the correct gyromagnetic ratio. A differential matrix, D*1, when multiplied into the electromagnetic vector potential, yields the electromagnetic fields, iE +B . The complex conjugate, D1, operating on these same fields gives the complete set of Maxwell s equations in essentially one step. Operation again with D*1 on the Maxwell equations or on the charge-current density 4-vector yields the charge-current density conservation law in 4 dimensional form, and so on. Finally, the tour de force of electromagnetism is completed by the surprising result that arbitrary motion of a charge automatically produces E-M fields with zero time components. Operation of the D*1 matrix on the energy-momentum vector yields the Schroedinger operators for energy and momentum. The dot product of the Lorentz transformed...

Reviews

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