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Short title: Time-dependent pseudo-Hermitian Hamiltonians defining a unitary quantum system and uniqueness of the metric operator.

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Review text:

Ali Mostafazadeh is one of the world leading specialists in quantum pseudo-Hermitian Hamiltonians. His new text pays attention to the time-dependent evolution controlled by these operators. For a general time-dependent Hamiltonian he reveals the surprising existence of additional necessary and sufficient conditions for the unitarity of the related evolution problem. In particular, for all the two-level Hamiltonians he constructs the general form of these conditions which are shown, in their essence, geometrical. Marginally he addresses also the problem of the uniqueness of the metric operator.