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Algebraic characterizations of distance-regular graphs. (English) Zbl 1025.05060
Discrete Math. 246, No. 1-3, 111-129 (2002).

The paper provides a survey of characterizations of distance-regular graphs both in terms of properties of the adjacency and distance matrices associated with a graph. Special consideration is also given to spectral characterizations of special families of distance-regular graphs such as strongly regular and antipodal graphs.

Reviewer: [R.E.L.Aldred \(Dunedin\)](#)

MSC:

[05E30](#) Association schemes, strongly regular graphs
[05C75](#) Structural characterization of families of graphs
[05C50](#) Graphs and linear algebra (matrices, eigenvalues, etc.)

Cited in **36** Documents

Keywords:

[strongly regular](#); [antipodal graphs](#)

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