

Zbl 691.05053

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Representations of graphs and orthogonal Latin square graphs. (In English)

J. Graph Theory 13, No.5, 593-595 (1989). [0364-9024]

We define graph representations modulo integers and prove that any finite graph has a representation modulo some integer. We use this to obtain a new, simpler proof of Lindner, E. Mendelsohn, N. Mendelsohn, and Wolk's result that any finite graph can be represented as an orthogonal Latin square graph.

Classification:

05C99 Graph theory

05B15 Orthogonal arrays, etc.

Keywords:

graph representations modulo integers; orthogonal Latin square graph