

عنوان مقاله:

Perfect ℓ -Colorings of the \mathfrak{r} -Regular Graphs of Order \mathfrak{n}

محل انتشار:

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خلاصه مقاله:

The perfect m -coloring with matrix $A = [a_{ij}]_{i,j \in \{1, \dots, m\}}$ of a graph $G = (V, E)$ with $\{1, \dots, m\}$ color is a vertices coloring of G with m -color so that number of vertex in color j adjacent to a fixed vertex in color i is a_{ij} , independent of the choice of vertex in color i . The matrix $A = [a_{ij}]_{i,j \in \{1, \dots, m\}}$ is called the parameter matrix. We study the perfect ℓ -colorings of the \mathfrak{r} -regular graphs of order \mathfrak{n} , that is, we determine a list of all color parameter matrices corresponding to perfect colorings of \mathfrak{r} -regular graphs of order \mathfrak{n} .

کلمات کلیدی:

Perfect coloring, Parameter matrices, Cubic graph, Equitable partition

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