

New 2-edge-balanced graphs

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Let G be a graph of order n satisfying that there exists $\lambda \in \mathbb{Z}^+$ for which every graph of order n and size t is contained in exactly λ distinct subgraphs of the complete graph K_n isomorphic to G . Then G is called t -edge-balanced and λ the *index* of G . In this talk, I present new infinite families of 2-edge-balanced graphs.

Keywords: t -edge-balanced graphs, graphical t -designs.