

The Metamorphosis of 2-fold Triple Systems into Maximum Packings of $2K_n$ with 4-cycles

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The problem of constructing a 2-fold triple system of order n having a metamorphosis into a maximum packing of $2K_n$ with 4-cycles is addressed by solving the problem for every $n \equiv 3, 6, 7, \text{ or } 10 \pmod{12}$. This is part of a larger problem, namely metamorphoses of maximum packings of $2K_n$ with triples into maximum packings of $2K_n$, where the leaves are as “nice” as possible.

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