On z-cycle factorizations with two associate classes

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Let $K = K(a, p; \lambda_1, \lambda_2)$ be the multigraph with: the number of vertices in each part equal to a; the number of parts equal to p; the number of edges joining any two vertices of the same part equal to λ_1; and the number of edges joining any two vertices of different parts equal to λ_2. The existence of C_4-factorizations of K has been settled when a is even; when $a \equiv 1 \pmod 4$ with one exception; for very few cases when $a \equiv 3 \pmod 4$; and when $a \equiv 1 \pmod z$ and λ_1 is even, and when $a \equiv 0 \pmod z$. In this paper, we discuss latest results and further problems.