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Chromatic number of finite and infinite graphs and hypergraphs. (In English)

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In this survey the authors state some old and new solved and unsolved problems concerning the chromatic number of finite and infinite graphs and hypergraphs, raised by Galvin, Shelah, Komlós, Komjath, Mihoc, Burr, Szemerédi, Nešetřil, Rödl, Taylor and the authors.

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Classification:

05C15 Chromatic theory of graphs and maps

05C35 Extremal problems (graph theory)

05-02 Research monographs (combinatorics)

Keywords:

uncountable chromatic number; bipartite graph; edge density; finite graphs; finite hypergraphs; infinite hypergraphs; infinite graphs