## Zbl 378.05032

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Articles of (and about)

On the chromatic index of almost all graphs. (In English)

J. Comb. Theory, Ser. B 23, 255-257 (1977). [0095-8956]

To say that "almost all graphs have a given property" means that if P(n) is the probability that a random graph on n vertices has that property, then  $P(n) \to 1$ as  $n \to \infty$ . It is known that the chromatic index of a simple graph G is either  $\rho$ or  $\rho + 1$  where  $\rho$  is the maximum vertex-degree of G (Vizing's theorem). The second author conjectured that almost all graphs have the chromatic index equal to  $\rho$ . The purpose of this paper is to prove the conjecture. The result is deduced from the lemma that almost all graphs have a unique vertex of maximum degree.

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## Classification:

05C15 Chromatic theory of graphs and maps