

A NEW PROOF THAT 4-CONNECTED PLANAR GRAPHS ARE HAMILTONIAN-CONNECTED

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Abstract

We prove a theorem guaranteeing special paths of faces in 2-connected plane graphs. As a corollary, we obtain a new proof of Thomassen's theorem that every 4-connected planar graph is Hamiltonian-connected.

Keywords: 4-connected planar graph, Hamiltonian-connected, Tutte-path.

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