Discussiones Mathematicae
Graph Theory 36 (2016) 555–564
doi:10.7151/dmgt.1872

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.

2010 Mathematics Subject Classification: 05C10, 05C45.

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Received 31 May 2015
Revised 16 September 2015
Accepted 16 September 2015

[1]Research supported in part by Recruitment Program of Foreign Experts, 1000 Talent Plan, State Administration of Foreign Experts Affairs, China.