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

XIAOYUN LU

Center for Statistical Research and Methodology
Census Bureau, Suitland, MD

e-mail: xiaoyun.lu@census.gov

AND

DOUGLAS B. WEST¹

Zhejiang Normal University, Jinhua, China
and University of Illinois, Urbana, IL

e-mail: dwest@math.uiuc.edu

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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