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Conformal Mappings between Canonical Multiply Connected Domains

CMFT 6 No.1 (2006), 59–76. [ISSN 1617-9447]

Abstract. Explicit analytical formulae for the conformal mappings from the canonical class of multiply connected circular domains to canonical classes of multiply connected slit domains are constructed. All the formulae can be expressed in terms of the Schottky-Klein prime function associated with the multiply connected circular domains.

Keywords. Conformal map, multiply connected, Green's functions.

2000 MSC. 30C20, 31A15.

Received. May 27, 2005, in revised form February 2, 2006.