

Circulation in Contact Binary Systems

D. Q. ZHOU

*Department of Geophysics
Peking University
Beijing, China*

and

K. C. LEUNG

*Behlen Observatory
University of Nebraska
Lincoln, NE USA*

It has been proven that circulation must exist in the envelope of contact binary systems according to the baroclinic structure in the contact binary atmosphere (Zhou and Leung 1990). For the sake of simplification, the Coriolis effect will be neglected in our numerical calculation for the formation of this circulation so that it can be simplified into a two-dimensional axisymmetric circulation. In this paper, we have produced the circulation by means of numerical simulation. We also put forth a discussion on boundary and initial conditions.

Zhou, D. Q. and Leung, K. C. 1990, *ApJ*, **355**, 271.