

Failure Mechanism of Slip-Critical Connections on Curved Surface

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Abstract : Variation of slip coefficient in slip-critical connections of curved plates. This paper presents the results of analytical investigations of slip coefficients in slip-critical bolted connections of curved plates. It may depend on the contact stress distribution at interface and the flexibility of spliced plate. Non-linear FEM analyses have been made to simulate the behavior of bolted connections of curved plates with various radiuses of curvature and thicknesses.

Keywords : slip coefficient, curved plates, slip-critical bolted connection, radius of curvature

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