MATERIALS AND STRUCTURES SYMPOSIUM (C2)
Poster Session (P)

Author: Mrs. qu zhuanli

The 41st Institute of the Fourth Academy, China Aerospace Science and Technology Corporation (CASC),
China, qzl19741002@163.com

Dr. wang haibin

The 41st Institute of the Fourth Academy, China Aerospace Science and Technology Corporation (CASC),
China, ghost.bluenight@gmail.com

INVESTIGATION ON THE DESIGN FORMULAS FOR THE NOZZLE FLEXIBLE JOINT

Abstract

In this paperthe design formulas in domestic and overseas literatures for the flexible Joint were analyzed and comparedthe differences of all the formulas were illuminated and the mistakes of the formulas were pointed out. Stresses were calculated using the different design formulas for a certain flexible joint and the results were compared with the FEMand thus the reasonable design formulas for the flexible Joint were brought forward.On the basis of these worksthe suggestions of amending the formulas were brought forward.