

Publications

Title of the Ph D Thesis: Behaviors of the superelastic shape memory alloy columns under compression and torsion.

Title of the M. Sc. Engineering thesis: Stability and stress analysis of the parabolic pipe reducers.

Papers published in the Journals/Reports

1. Rahman Muhammad Ashiqur, Qiu. J., Tani. J., 2001. 'Buckling and postbuckling characteristics of the superelastic SMA columns'. International Journal of Solids and Structures 38, pp. 9253-9265.
2. Rahman Muhammad Ashiqur, Qiu. J., Tani. J., 2000. 'Stability analysis of eccentrically loaded columns actuated by shape memory alloy wires'. Rep. Institute of Fluid Science, Tohoku University, Japan, Vol. 12, pp. 1-7.
3. Rahman Muhammad Ashiqur, Ali. G. M. Zulfikar, Khan, Md. R., Uddin. Md. Wahhaj, 1997. 'Stress analysis of conical pipe reducer under uniform external pressure'. Journal of the Institution of Engineers (India), vol.78, pp.145-150.
4. Rahman Muhammad Ashiqur, Uddin. Md. R., Uddin. Md. Wahhaj, 1994. 'Stability analysis of parabolic pipe reducer under uniform external pressure'. International Journal of Pressure Vessels and Pipings, vol. 64 (1), pp. 1-10.

Papers published in the Proceedings

1. Rahman Muhammad Ashiqur, Rahman, S., K. N. A. Noman, Islam, S. 2004. 'Optimum design of a proving ring'. Proceedings of 2nd BSME-ASME- International Conference on Thermal Engineering , Dhaka, Bangladesh. PP 1123-1128.
2. Rahman Muhammad Ashiqur, Tani , J. 2004. 'Large deflection analysis of superelastic SMA columns'. Proceedings of 2nd BSME-ASME- International Conference on Thermal Engineering, Dhaka, Bangladesh. PP 1095-1102.
3. Rahman Muhammad Ashiqur, Rahman, S., K. N. A. Noman, Islam, S. 2003. 'Large deflection analysis of superelastic SMA beams'. Proceedings of International Conference on Mechanical Engineering. Dhaka, Bangladesh. ICME03-AM-54.
4. Rahman Muhammad Ashiqur, Tani , J., Qiu , J. 2002. 'Direct method to estimate stress induced-martensitic transformation points by tensile test'. Proceedings of BSME-ASME- International conference on Thermal Engineering, Dhaka, Bangladesh. PP 761-765.
5. Rahman Muhammad Ashiqur, Tani, J., Qiu, J. 2001. 'Unique behaviors of the superelastic shape memory alloy under tensile and compressive loading. Proceedings of International Conference on Mechanical Engineering, Dhaka, Bangladesh. Vol-3, Sec-5, P 185-187.
6. Rahman Muhammad Ashiqur, Qiu. J., Tani. J., 2000. 'Behaviors of the superelastic SMA columns under compressive loading-unloading cycles'. Proceedings of the 11th International Conference on Adaptive Structures and Technology (Nagoya, Japan), pp351-358.
7. Rahman Muhammad Ashiqur, Qiu. J., Tani. J., 2000. 'Behaviors of the short superelastic SMA columns under compressive loading-unloading cycles'. Proceedings of the JSME Tohoku Branch Conference, pp. 67-68.