BARRIERS FOR SHOCK ATTENUATION, A NUMERICAL STUDY

D. Igra¹, O. Igra²

¹Rafael, Aerodynamics Group, Haifa, Israel 31021, Israel; ²Department of Mechanical Engineering, Ben Gurion University, Israel

ABSTRACT

Various ways for attenuating shock/blast waves were proposed during the past century. In the present paper four different barriers proposed for shock/blast wave mitigation are checked. The resulting flow field while using these barriers is studied numerically with the aim of finding the most suitable barrier's geometry. While all types of the investigated barriers resulted in significant reduction in the pressure acting on the duct end-wall, the difference between the resulted shock attenuation while using the different barriers is marginal.