
Vortex Rings

vortex rings of one fluid in another in free fall - vortex rings can be generated in a number of ways. one way is to impulsively eject a puff of fluid from a circular opening into a bath of the same fluid, as in the smoke ring.' another is to let a drop of liquid fall into a pool of the same ... vortex rings of one fluid in another in free fall ... **dynamics of thin vortex rings - university of notre dame** - dynamics of thin vortex rings 323 in ħ4.5) we have $m_p v_p = \rho \Gamma \pi r^2$, (2.1) where m_p is the mass of water displaced by the piston and $v_p = l/t$ is the velocity of the piston. at the same time, when the ring is moving with its bubble at velocity v , $m_p v_p = m_b v$, (2.2) where v is the velocity of the vortex ring and m_b is the mass of fluid in the ring- bubble complex. **the formation of 'optimal' vortex rings, and the efficiency ...** - the formation of 'optimal' vortex rings 63 not be discussed in detail: it is the purpose of the present paper to give a different, but complementary, description of the formation process. we believe this approach will shed further light on the physical constraints in a form that will be useful in **vortex rings generated by a shrouded hartmann-sprenger tube** - vortex rings generated by a shrouded hartmann-sprenger tube jack wilson qss group, inc. cleveland, ohio 44135 the pulsed flow emitted from a shrouded hartmann-sprenger tube was sampled with high-frequency pressure transducers and with laser particle imaging velocimetry, and found to consist of a train of vortices. **thrust and mass vortex rings from notched nozzles - arxiv** - vortex rings from notched nozzles trung bao le1 2and fotis sotiropoulos* abstract the formation of a vortex ring from a piston/nozzle apparatus depends on the nozzle exit's shape. here we study the formation mechanism and the evolution of asymmetrical rings from notched nozzles using direct numerical simulations. **interaction of a vortex ring with a piston vortex** - interaction of a vortex ring with a piston vortex j. j. allen and b. auvity * department of mechanical and aerospace engineering princeton university, princeton, nj, 08540 recent studies on vortex ring generation, e.g. rosenfeld et al. (1998), have highlighted the subtle effect on generation geometry on the final properties of rings. **experimental head-on collision of viscous vortex rings - nasa** - head-on collision of viscous vortex rings by s. stanaway', k. shariff', and f. hussain³ the head-on collision of two identical & symmetric viscous vortex rings is studied through direct simulations of the incompressible navier-stokes equations. the initial vorticity distributions considered are those of hill's spherical vortex and of **dynamics and mixing of vortex rings in crossflow - aem** - dynamics and mixing of vortex rings in crossflow 391 duration of time τ (referred to as piston time duration). the inflow velocity is zero for time greater than τ_e stroke length and non-dimensional time are determined

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