
Vortex Formation In The Cardiovascular System

a universal time scale for vortex ring formation - a vortex ring can attain during its formation is reached at this non-dimensional time or formation number. the universality of this number was tested by generating vortex rings with different jet exit diameters and boundaries, as well as with various non-impulsive piston velocities. it is shown that the 'formation number' lies in the **intake vortex formation and suppression at hydropower ...** - vortex formation in a facility where power optimization is essential and intake losses can be significant compared to the available head (bottazzi et al., 2007). the term critical submergence (s **an investigation into the vortex formation in a turbulent ...** - an investigation into the vortex formation in a turbulent fluid with an application in tropical storm generation by kaushik majumdar electronics & communication sciences unit, indian statistical institute, 203, b. t. road, **on the relationship between the vortex formation process ...** - vortex formation time effects that hinge around a formation time of $1/st$, it would be natural to conclude that the value of the strouhal number is in fact set by the vortex formation time. therefore understanding the timing of the vortex formation process **weakly nonlinear analysis of vortex formation in a ...** - vortex formation in a d9pe 907 notice that the steady state profile is identical to that of the corresponding hamiltonian ($= 0$) model. let us use here an approach extending our recent considerations in [8]. **detecting vortex formation and shedding in cylinder wakes ...** - detecting vortex formation and shedding in cylinder wakes using lagrangian coherent structures matthew .p rockwood syracuse university, syracuse, ny, 13244 kunihiro airat y florida state university, althahassee, florida 32310 melissa a. green z syracuse university, syracuse, ny, 13244 the wake behind a circular cylinder is studied to ... **vortex formation in the cardiovascular system - springer** - vortex formation in the cardiovascular system, from physics to physiology. the first two chapters of the book cover the fundamental aspects of fluid mechanics and in particular vortex dynamics. through these, the reader's attention is driven toward the lifespan of vortices from formation to dissipation and interaction. ... **transport and stirring induced by vortex formation** - formation and growth of a vortex ring. specifically, we aim to bridge the self-similar roll-up concept adopted in previous theoretical and numerical studies of early vortex formation with the vortex bubble perspective used in experimental investigations of fully formed vortex rings. **correlation between vortex ring formation and mitral ...** - correlation between vortex ring formation and mitral annulus dynamics during ventricular rapid filling arash kheradvar,*† michele milano,† and morteza gharib*† one of the most important fluid phenomena observed in the left ventricle during diastole is the presence of vortex rings that develop with a strong jet entering through the mitral ...

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