DOS : Flow induced vibrations

Number of participants: 9

Which type of flow induced vibrations does this schematic represent ?

6 respondents



vortex

Vortex (dynamic excitation)

Vortex

Alternating vortices

turbulent flow

Vortex



-	3. When a cylin vibrates in t	6 correct answers out of 6 respondents	
	of the flow	0%	0 votes
	which depends on the shape of the object	0%	0 votes
~	perpendicular to	100%	6 votes

Which state 4. correct? (Me apply)	ements about VIV are ultiple answers may	3 correct answers out of 7 respondents
VIV only occurs for cylindrical structures	0%	0 votes
VIV is an instability of the system	29%	2 votes
The vortex shedding frequency depends on the wind speed	100%	7 votes
The vortex shedding frequency depends on the resonance frequency of the structure	0%	0 votes
 Tall and slender towers (such as chimney's) are susceptible to VIV as their natural frequencies can match the vortex shedding frequency at certain wind speeds 	86%	6 votes
	29%	2 votes

5. In self-excited vibrations, the force Ff due to the flow is a function of

7 correct answers out of 7 respondents



	the displacement of the flexible object	0%	0 votes
	the velocity of the flexible object	0%	0 votes
)	both the displacement and the velocity of the flexible object	100%	7 votes

6. This is an example of

7 correct answers out of 7 respondents





