

Questions on Forced Vibrations:

1. What is linear response?
2. What is nonhomogeneous system?
3. What is transient?
4. What is steady state in oscillatory systems?
5. What is harmonic forcing?
6. How do you understand resonance? Give your own definition.
7. What is frequency-response curve?
8. What is the resonance frequency?
9. What is the width of resonance?
10. What are transfer and response functions?
11. What is amplitude envelope?
12. What is quality of a system at resonance?
13. What is compliance?
14. What are admittance, impedance, resistance, reactance, conductance and susceptance?
15. What is quasi-static limit?
16. What is PAC?
17. What is bandwidth?
18. Discuss the relationship between the quality of a system, power absorbing properties of a system and the time required to achieve full resonant state.
19. What is nonlinear response?
20. What are subharmonic and superharmonic resonances? What is causing them?
21. How do you understand the term basin of attraction of a solution?