

DATE

COUPLED OSCILLATORS

When the motion of one oscillating system influences another, the two are said to be coupled.

The two or more oscillators linked together in such a way that an exchange of energy transfer takes place between them are called coupled oscillators.

Some examples of two coupled oscillating systems are

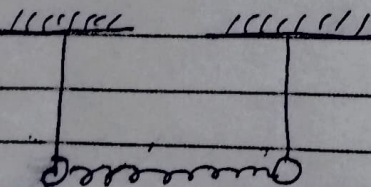
① Two simple pendulums with their bobs attached to each other by means of a spring

② Two masses attached to each other by three springs (middle spring provide the coupling)

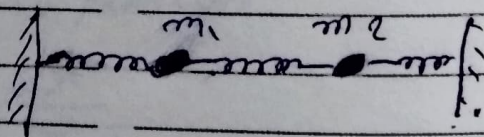
APPOINTMENTS

TASKS

③ Two coupled LC circuit

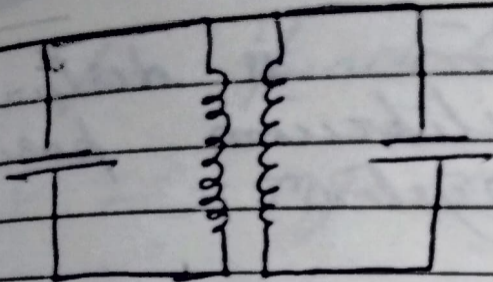


①



②

MT



③

These systems are said to be degree of freedom.