



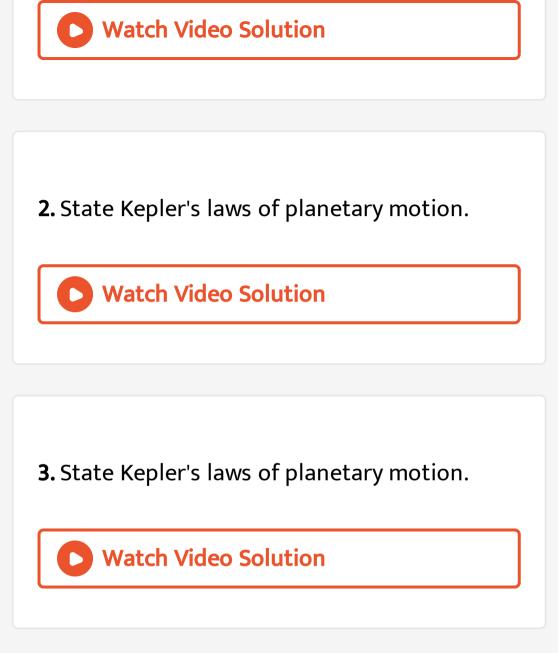
# PHYSICS

# BOOKS - NAVBODH PHYSICS (HINGLISH)

# LAWS AND THEORIES

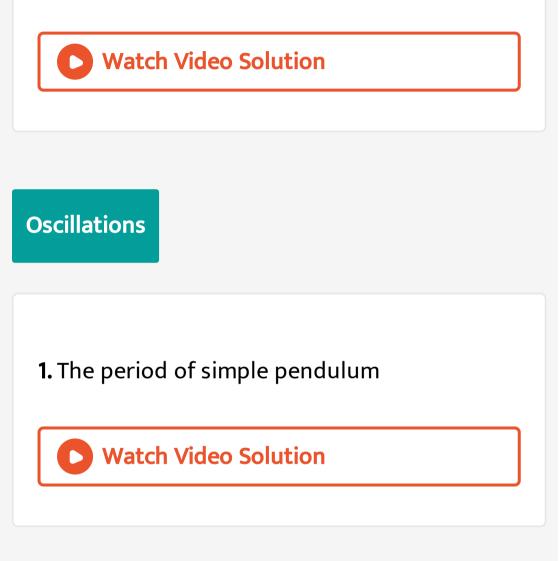
Gravitation

**1.** State and explain Newton's law of gravitation.



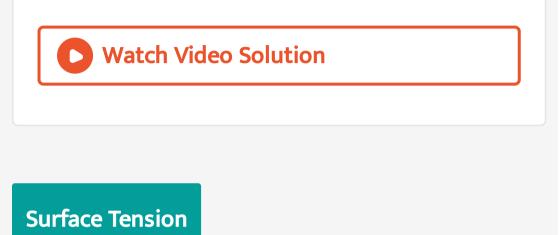
**Rotation Motion** 

#### **1.** CONSERVATION OF ANGULAR MOMENTUM





1. State Stoke's law.



**1.** Derive Laplace's law for a spherical membrane.

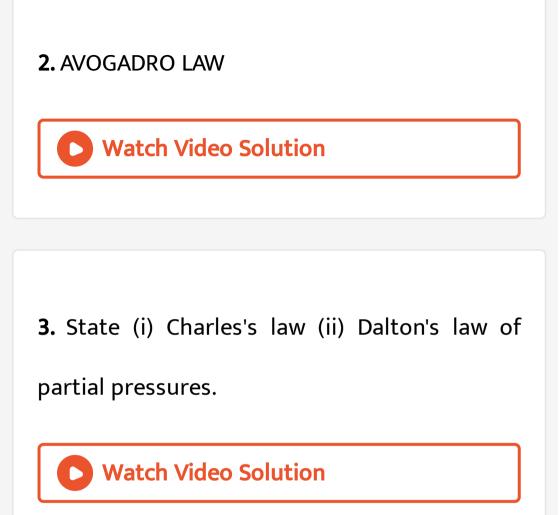
1. State and explain the laws of vibrations of

stretched strings.

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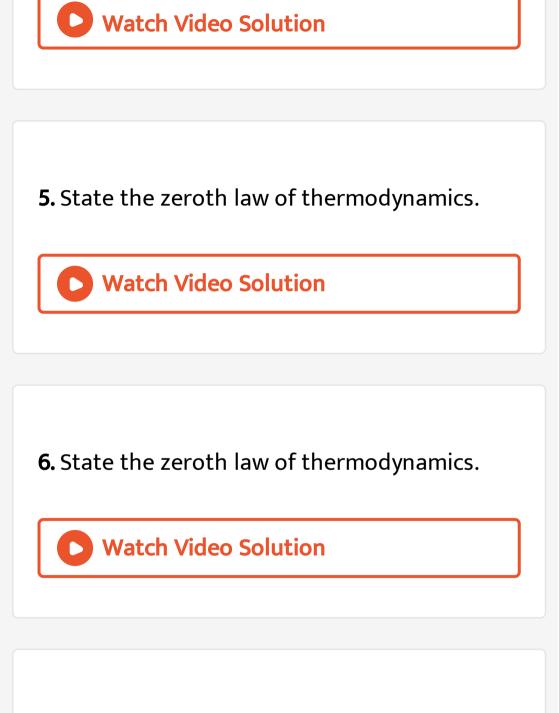
Kinetic Theory Of Gases And Radiation

1. AVOGADRO LAW

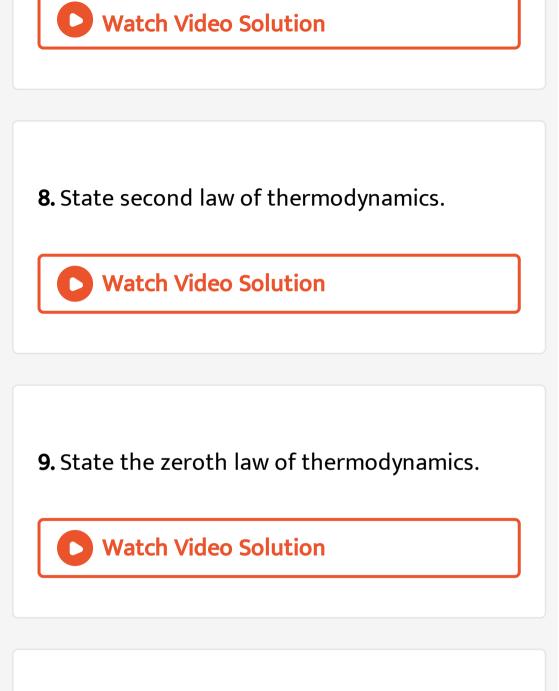


4. State the assumptions of the kinetic theory

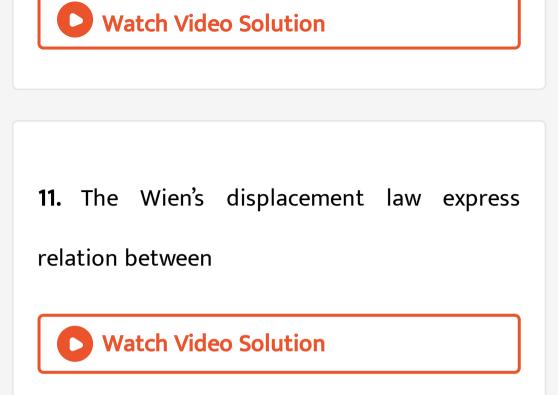
of gases.



7. State the first law of thermodynamics.



**10.** WIEN'S DISPLACEMENT LAW



## 12. The Kirchhoff's law leads to the conclusion

that the good radiators of thermal radiations

are



**13.** State and explain Newton's law of cooling.



14. State Nweton's law of net loss of heat.

Hence, show that

$$rac{dth\eta}{dt} \propto ( heta - heta_\circ).$$

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15. State and explain Stefan's law of radiation.



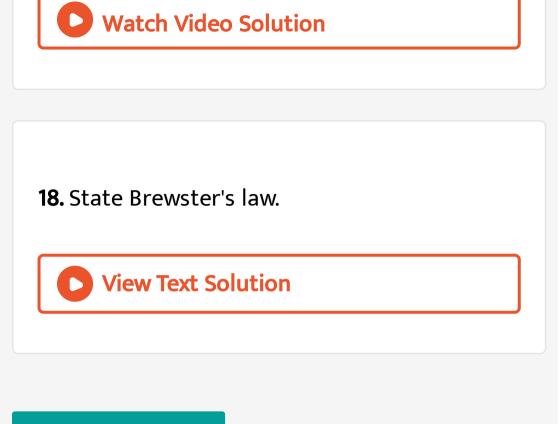
16. Mention any one demerit of Huygens' wave

theory of light.

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17. State Huygens' principle of diffraction of

light.



**Current Electricity** 

1. State Kirchhoff's laws for electrical circuit

with the sign conventions.

**Magnetic Effect Of Electric Current** 

1. State Ampere's circuital law, expressing it in

integral form.

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Magnetism

**1.** Explain qualitatively on the basis of a domain picture the irreversibility in the magnetization curve of a ferromagnet.



### **Electromagnetic Induction**

1. What is electromagnetic induction? State

Faraday's laws of electromagnetic induction.

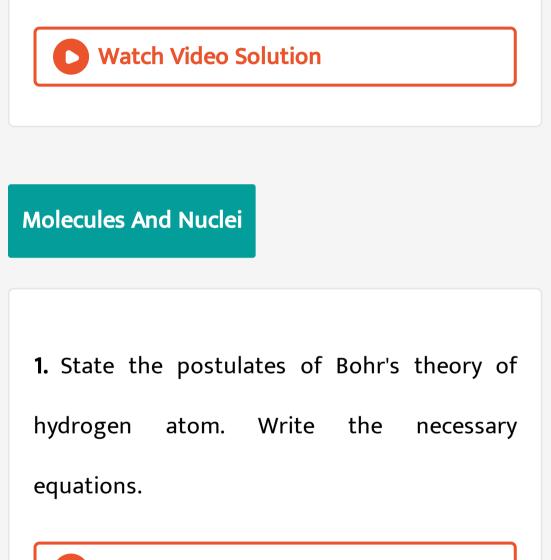
**2.** State Lenz's law of electromagnetic induction.



### 3. State Lenz's law of electromagnetic

induction.

4. Explain the law of conservation of energy .



2. State the postulates of Bohr's theory of hydrogen atom. Write the necessary equations.

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**3.** State de-Broglie hypothesis.

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Assignments

**1.** According to Newton's corpuscular theory

