



"DON'T SAY YOU DON'T HAVE ENOUGH TIME.
YOU HAVE EXACTLY THE SAME NUMBER OF
HOURS PER DAY THAT WERE GIVEN TO HELEN
KELLER, PASTEUR, MICHAELANGELO, MOTHER
TERESEA, LEONARDO DA VINCI, THOMAS
JEFFERSON, AND ALBERT EINSTEIN."

H. JACKSON BROWN JR



Latest Trends



State the theorem which relates total charge enclosed within a closed surface and the electric flux passing through it. Prove it for a single point charge.



State the law which relates to generation of induced emf in a conductor being moved in a magnetic field.



Name the phenomenon which proves transverse nature of light. Give two uses of the devices whose functioning is based on this phenomenon.



Name the phenomenon which is responsible for bending of light around sharp corners of an obstacle. Under what condition this phenomenon take place? Give one application of this phenomenon in daily life.



State the principle of the device used to accelerate charge particles. Define the resonance condition in this device.



Name the device used to detect the presence of current. How this device can be converted in to a device which can measure current. With the help of some arrangement can this device be converted to measure voltage?



State the law which is used to find magnetic field in complex cases. Using this law find the magnetic field because of a solenoid.



Explain the law used to find the direction of induced current. Hence justify the negative sign in Faraday's Second law of electro magnetic induction.



Name a device which makes electrical transmission economical. On which phenomenon this device is based? Explain the construction working and theory of this device? Write one more use of this device.



Explain the principle, construction and theory of a device which converts mechanical energy in to electrical energy? Draw the graph for electric flux versus time and emf versus time for this device.



Name the phenomenon which explains the sparkling of diamond. Using that phenomenon explain how the rays can be rotated by 90° .



Name the effect which proves Dual nature of light. Which famous experiment proves dual nature of particles?



Draw VI characteristic curve of a device used in amplification of signals. How input and output resistance of the device can be obtained from these characteristics curve?



Identify the device used to demodulate the modulated wave. Why IF stage is used in that device?



Explain the construction and working of a device used to convert light energy in to electricity.