

– Mathematician **Sophie Germain** writes the first of three papers on the mathematics of vibrating surfaces. She later addresses one of the most famous problems in mathematics—Fermat's last theorem—proving it to be true for a wide range of conditions.



– Kamehameha I unites the Hawaiian islands under a monarchy.

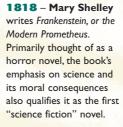
$$\sin\theta = \frac{m\lambda}{a}$$

Augustin Fresnel begins his research in optics, the results of which will confirm and explain Thomas Young's discovery of interference and will firmly establish the wave model of light first suggested by Christiaan Huygens over a century earlier.



## $F_{magnetic} = BI\ell$

Hans Christian Oersted
demonstrates that an electric current
produces a magnetic field. (Gian
Dominico Romagnosi, an amateur
scientist, discovered the effect 18 years
earlier, but at the time attracted no
attention.) André-Marie Ampére
repeats Oersted's experiment and
formulates the law of electromagnetism that today bears his name.







 – Katsushika Hokusai begins his series of prints *Thirty-Six Views of* Mount Fuji.

