

# Tide generating forces

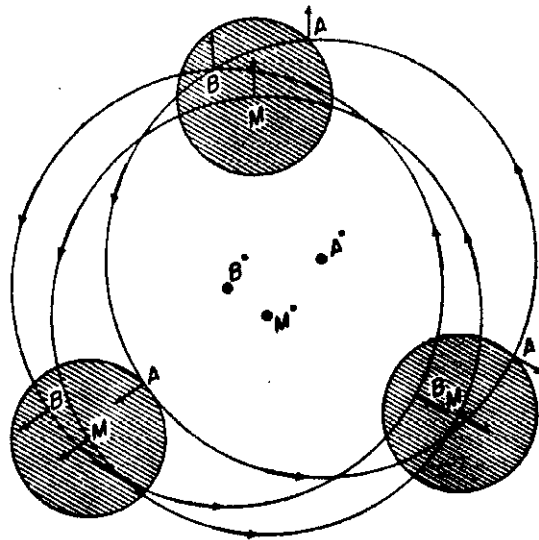


FIG. 107. Centrifugal forces when a body  $M$  rotates around  $M^*$ .

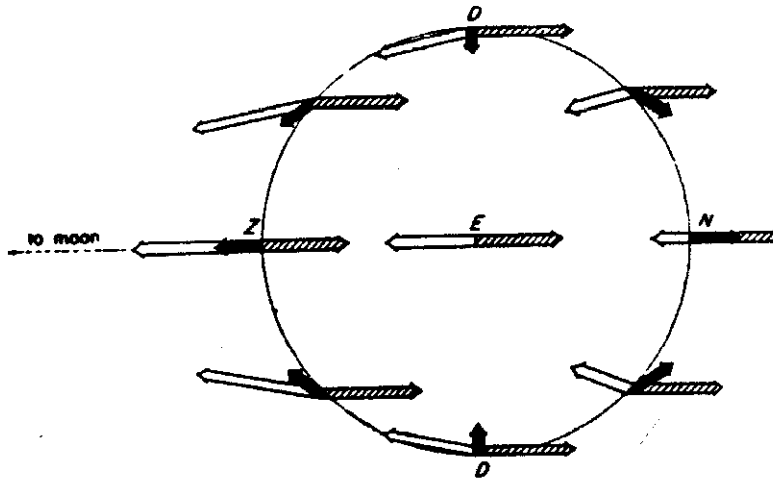


FIG. 108. Determination of intensity and direction of the tide generating forces resulting from the difference between attractive and centrifugal forces.  $\longrightarrow$ , open arrows: attractive forces;  $\text{||||}$ , hatched arrows: centrifugal forces;  $\text{————}$ , black arrows: tide generating forces.

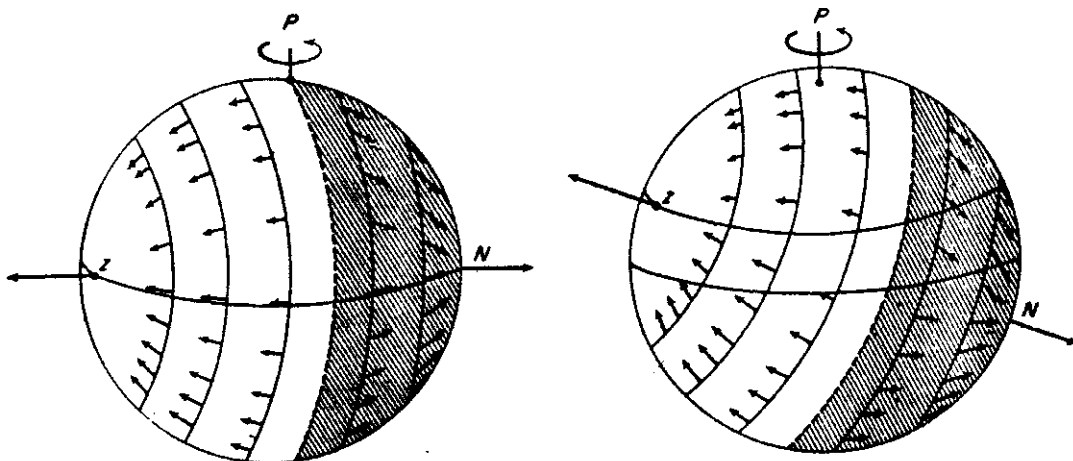


FIG. 111. Left: distribution of the horizontal component of the tide generating force when the moon is in the equator. Right: same when the moon has a positive declination of  $28^\circ\text{N}$ .