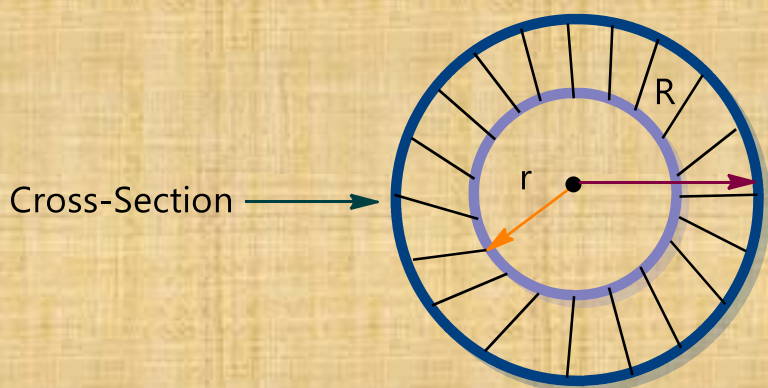


CHAPTER 13

Surface areas and Volumes

Note:



The cut, which is made through a solid perpendicular to its length (or, height), is called its cross-section.

A solid is said to have uniform cross-section, if this perpendicular cut is of the same shape and size at each point of its length (or height).

Example:

- When a cuboid is cut through point 'A' and 'B' to its length. The faces obtained (as the cross-section) at both the points are of same shape and size therefore, a cuboid has uniform cross-section. Similarly, a right-circular cylinder has uniform cross-section.
- The cross-section of a right circular cone is not uniform. Since, the cuts made give faces of same shape, but not of same size.

