# Surface Area Formulas

Shape	Figure	Lateral Surface Area (LSA)	Total Surface Area (TSA)
Cube		4a <sup>2</sup>	6a <sup>2</sup>
Cuboid	D. L.	2h(l+b)	2(lb+lh+bh)
Cylinder		2πrh	2πr(r+h)
Cone		πrl	πr(l+r)
Sphere		4πr <sup>2</sup>	4πr <sup>2</sup>
Hemisphere		2πr <sup>2</sup>	3πr <sup>2</sup>
Pyramid		1/2 × (Base Perimeter) × (Slant Height)	LSA + Area of Base
Prism	2	(Base Perimeter) × (Height)	LSA + 2(Area of Base)

## **Kuta Softaware Surface Area Of Solids**

Norman L. Hatfield, NAVY MARINE ENGINEERING LAB ANNAPOLIS MD.

#### **Kuta Softaware Surface Area Of Solids:**

Physics Briefs .1984 Surface Area & Volume Ann Roper, 1996 Surface Area of Regular Solids Dean Vakakis, Beth Determination of the Specific Surface Area of Solids by Gas Adsorption Using the BET Marr, J. Brolan, 1982 **Method** International Organization for Standardization, 1997 **Determination of the Specific Surface Area of Solids** by Gas Adsorption International Organization for Standardization. Technical Committee ISO/TC 24. Particle characterization including sieving, Subcommittee SC 4, Particle characterization, 2010 Determination of the Specific Surface Area of Solids by Gas Adsorption. BET Method British Standards Institute Staff, 1910-09-30 Particulate materials Surfaces Fineness Adsorption Nitrogen Gases Area measurement Test equipment Dimensions Fineness tests Permeability measurement Solids Porous materials Gas analysis Specimen preparation Testing conditions Mathematical calculations Control samples Adsorption indicators Pressure Volumetric analysis Gravimetric analysis Determination of the Surface Areas of Selected Solids Norman L. Hatfield, NAVY MARINE ENGINEERING LAB ANNAPOLIS MD., 1967 Because of the many applications of solid gas interface phenomena in Navy technology a study was made of methods for the determination of the surface area of solids with the purpose of investigating new adsorbents After a review of the literature on the many techniques for measuring surface area the dynamic flow methods using the Brunauer Emmett Teller theory of molecular adsorption was selected The error in this method is less than 5 percent and the instrumentation required is not overly complicated The instrumentation was set up sample treatment and measuring techniques were standardized and the surface areas of selected materials were determined The values ranged from a high of almost 1000 square meters per gram for activated carbon to a low of 0 078 squares meters per gram for glass beads Author

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