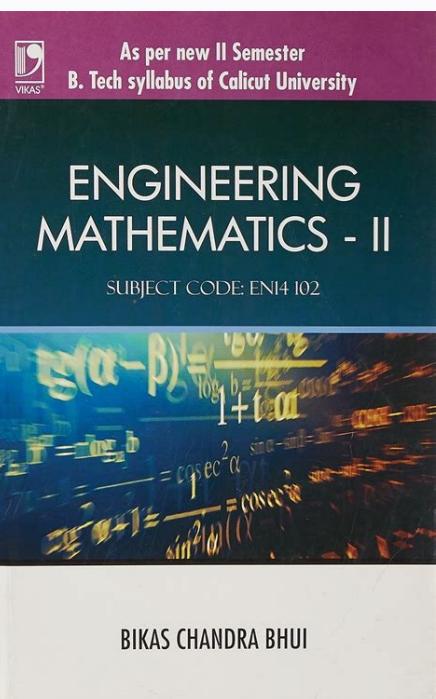


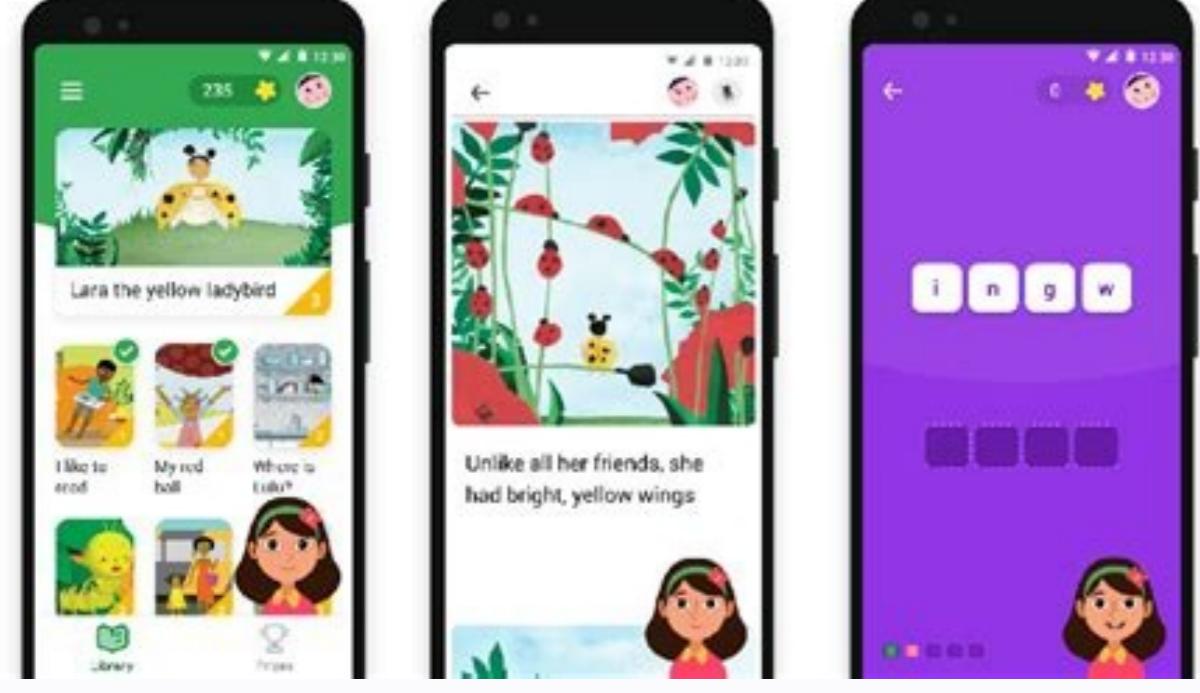
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Plane Geometry		Material Properties	
Circle Diameter = $2r$ Circumference = $2\pi r$ Area = πr^2		Equilateral Triangle Perimeter = $3a$ Area = $\frac{\sqrt{3}}{4}a^2$	
Parallelogram Area = bh		Rectangle Perimeter = $2(a+b)$ Area = ab	
Right Triangle $c^2 = a^2 + b^2$ $\sin \theta = \frac{a}{c}$ $\cos \theta = \frac{b}{c}$ $\tan \theta = \frac{a}{b}$		Triangle Area = $\frac{1}{2}bh$ $a^2 = b^2 + c^2 - 2bc\cos\angle A$ $b^2 = a^2 + c^2 - 2ac\cos\angle B$ $c^2 = a^2 + b^2 - 2ab\cos\angle C$	
Solid Geometry		Regular Polygons Area = $\frac{nh}{2}$ $n =$ number of sides	
Cube Volume = a^3 Surface Area = $6a^2$		Trapezoid Area = $\frac{1}{2}(a+b)h$	
Rectangular Prism Volume = lwh Surface Area = $2(lw + lh + wh)$		Sphere Volume = $\frac{4}{3}\pi r^3$ Surface Area = $4\pi r^2$	
Right Circular Cone Volume = $\frac{\pi r^2 h}{3}$ Surface Area = $\pi r(l + r)$		Cylinder Volume = $\pi r^2 h$ Surface Area = $2\pi r(h+r)$	
Pyramid Volume = $\frac{Abh}{3}$ A = area of base		Irregular Prism Volume = Ah A = area of base	
		Constants $g = 9.8 \text{ m/s}^2 = 32.17 \text{ ft/s}^2$ $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$ $c = 3 \times 10^8 \text{ m/s}$	

Structural Analysis	
Beam Formulas	
	Reaction: $R_A = R_B = \frac{w}{2}$ Moment: $M_{max} = \frac{wL^2}{8}$ (at point of load) Deflection: $\Delta_{max} = \frac{wL^4}{48EI}$ (at point of load)
	Reaction: $R_A = R_B = \frac{wL}{2}$ Moment: $M_{max} = \frac{wL^2}{12}$ (at center) Deflection: $\Delta_{max} = \frac{wL^4}{48EI}$ (at center)
	Reaction: $R_A = R_B = P$ Moment: $M_{max} = \frac{Pz}{2}$ (between loads) Deflection: $\Delta_{max} = \frac{Pz^3}{24EI} (z^2 - 4z^2)$ (at center)
	Reaction: $R_A = \frac{m}{L}$ and $R_B = \frac{P}{L}$ Moment: $M_{max} = \frac{Pz}{L}$ (at Point of Load) Deflection: $\Delta_{max} = \frac{Pz^3}{24EI} \frac{(m+2z)(2z-m)}{L^3}$ (if $z = \frac{L}{2}$ then $\Delta_{max} = \frac{PL^3}{192EI}$)
Deformation: Axial	
$\delta = \frac{FL_x}{AE}$ <p>δ = deformation F = axial force L_x = original length A = cross-sectional area E = modulus of elasticity</p>	
	Truss Analysis
	$J = M + R$ <p>J = number of joints M = number of members R = number of reaction forces</p>



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