$$ax^2+bx+c=0,$$

$$x=\frac{-b\pm\sqrt{b^2-4ac}}{2a}$$

$$2\pi \text{ rad} = 360^\circ$$

$$\frac{\sin\theta_a}{a}=\frac{\sin\theta_b}{b}=\frac{\sin\theta_c}{c}$$

$$c^2=a^2+b^2-2ab\cos\theta_c$$

$$\theta_a+\theta_b+\theta_c=\pi\ (180^\circ)$$

$$\sin\theta=\frac{\text{Opposite}}{\text{Hypotenuse}}=\frac{b}{c}$$

$$\cos\theta=\frac{\text{Adjacent}}{\text{Hypotenuse}}=\frac{a}{c}$$

$$\tan\theta=\frac{\text{Opposite}}{\text{Adjacent}}=\frac{b}{a}$$

$$\sin(\alpha\pm\beta)=\sin\alpha\cos\beta\pm\cos\alpha\sin\beta$$

$$\cos(\alpha\pm\beta)=\cos\alpha\cos\beta\mp\sin\alpha\sin\beta$$

$$W=mg$$

$$g = 32.2 \text{ ft/sec}^2 = 9.81 \text{ m/sec}^2$$

$$N=\frac{\text{kg-m}}{\text{sec}^2} \qquad \text{slug}=\frac{\text{lb}}{(\text{ft/sec}^2)}$$

Units for moment of a force	
U.S. Customary	SI
ft-lb or in.-lb	N-m

Chapter 2: Force Vectors

$$\vec{R}=\sum\vec{F}, \quad \vec{F}=F\vec{\lambda}$$

$$\vec{\lambda}_{AB}=\frac{\vec{r}_{AB}}{|\vec{r}_{AB}|}=\frac{x\vec{i}+y\vec{j}+z\vec{k}}{\sqrt{(x)^2+(y)^2+(z)^2}}$$

$$\vec{\lambda}_{AB}=\cos\theta_x\vec{i}+\cos\theta_y\vec{j}+\cos\theta_z\vec{k}$$

$$\vec{\lambda}_{AB}=\sin\theta_y\cos\varphi\vec{i}+\cos\theta_y\vec{j}+\sin\theta_y\sin\varphi\vec{k}$$

$$\cos^2\theta_x+\cos^2\theta_y+\cos^2\theta_z=1$$

$$\vec{F}=F_x\vec{i}+F_y\vec{j}=F\cos\theta_x\vec{i}+F\sin\theta_y\vec{j}=F\angle\theta$$

Chapter 3: Equilibrium of Particles

$$\sum\vec{F}=\sum F_x\vec{i}+\sum F_y\vec{j}+\sum F_z\vec{k}=\vec{0}$$

$$\vec{i}: \sum F_x=0$$

$$\vec{j}: \sum F_y=0$$

$$\vec{k}: \sum F_z=0$$

Chapter 4: Moments of a Force

The moment of $\vec{F}$ about point A

$$\vec{M}_A=\vec{r}\times\vec{F}, \quad |M_A|=d_\perp F$$

where $\vec{r}$ is a position vector from P to any point on the line of action of $\vec{F}$

$$M_A=(Fr)\sin\theta=F(r\sin\theta)=Fd_\perp,$$

$$M_A=(Fr)\sin\theta=(r\sin\theta)F=rF_\perp.$$

$$\vec{M}_A=\vec{r}\times\vec{F}=\begin{vmatrix}\vec{i}&\vec{j}&\vec{k}\\ r_x&r_y&r_z\\ F_x&F_y&F_z\end{vmatrix}$$

$$=-\vec{r}\times\vec{F}=\vec{F}\times\vec{r}$$

Moment about a line:

$$M_{AB}=\vec{\lambda}_{AB}\cdot\vec{M}_P=\vec{\lambda}_{AB}\cdot(\vec{r}\times\vec{F})$$

$$=\vec{\lambda}_{AB}\cdot\begin{vmatrix}\vec{i}&\vec{j}&\vec{k}\\ r_x&r_y&r_z\\ F_x&F_y&F_z\end{vmatrix}$$

$$M_{AB}=\begin{vmatrix}\lambda_x&\lambda_y&\lambda_z\\ r_x&r_y&r_z\\ F_x&F_y&F_z\end{vmatrix}$$

Equivalent Force-Couple System:

$$\vec{R}=\sum\vec{F},$$

$$\vec{M}_O=\sum\vec{M}_O$$

$$=\sum(\vec{r}\times\vec{F})+\sum\vec{M}_{\text{couples}}$$

Equivalent Systems:

$$\sum\vec{F}_{\text{System 1}}=\sum\vec{F}_{\text{System 2}}$$

$$\sum\vec{M}_{P\text{System 1}}=\sum\vec{M}_{P\text{System 2}}$$

Chapter 5: Equilibrium of Rigid Bodies

$$\sum\vec{F}=0, \text{ and } \sum\vec{M}_P=0$$

$$\vec{i}: \sum F_x=0$$

$$\vec{j}: \sum F_y=0$$

$$\vec{k}: \sum F_z=0$$

$$\vec{i}: \sum M_x=0$$

$$\vec{j}: \sum M_y=0$$

$$\vec{k}: \sum M_z=0$$

2D Planar:

$$\rightarrow \sum F_x=0$$

$$\uparrow \sum F_y=0$$

$$\circlearrowright \sum M_P=0$$

Reaction forces prevent translation:
Reaction moments prevent rotation

Chapter 7: Internal Forces and Moments

In two-dimensions:

N = Normal Axial Force
V = Transverse Shear Force
M = Bending Moment

$$\frac{dV}{dx}=-w, \quad \frac{dM}{dx}=V$$

$$\frac{d^2M}{dx^2}=-w(x)$$

Concentrated force P,
shear discontinuity (jump):

$$V^+-V^-=-P$$

Concentrated couple MC,
moment jump:

$$M^+-M^-=-M_C$$

In three-dimensions:

Nx = Axial Force
Vy = Shear Force in y-direction
Vz = Shear Force in z-direction
Tx = Torque about the x-axis
My = Moment about the y-axis
Mz = Moment about the z-axis

w(x):
Distributed loads

$$F=\int_L w(x)dx$$

$$F\bar{x}=M=\int_L xw(x)dx$$

Effect of w(x) is statically equivalent to resultant F at position $\bar{x}$.

Chapter 8: Friction

$$F_f \le (F_f)_{\max\text{ static}}=\mu_s F_N$$

If at the max limit, on the verge of sliding and impending motion,

$$F_f=\mu_s F_N$$

Belt Friction: $\frac{T_2}{T_1}=e^{\mu\beta}$

Spring Forces and Torques:

$$F_s=k_L(L'-L)$$

$$M_s=k_\theta(\theta'-\theta)$$

Chapter 11: Virtual Work

$$\delta U=\delta\vec{r}\cdot\vec{F}+\delta\theta\vec{M}=0$$

Virtual Power:

$$\delta V=\delta\vec{r}\cdot\vec{F}+\delta\omega\vec{M}=0$$

Cee 101 Statics And Dynamics Purdue Engineering

DJ Losen

Cee 101 Statics And Dynamics Purdue Engineering:

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