Types of Connection	Reaction	Number of Unknowns
cable	F	One unknown. The reaction is a force which acts awa from the member in the known direction of the cable.
smooth surface support	F	One unknown. The reaction is a force which ac perpendicular to the surface at the point of contact.
(3)	F	One unknown. The reaction is a force which ac perpendicular to the surface at the point of contact.

Types of Connection	Reaction	Number of Unknowns
ball and socket	\mathbf{F}_{x} \mathbf{F}_{y}	Three unknowns. The reactions are three rectangula force components.
single journal bearing	M_z F_z F_x	Four unknowns. The reactions are two force and tw couple-moment components which act perpendicular t the shaft.
single journal bearing with square shaft	\mathbf{M}_{z} \mathbf{F}_{z} \mathbf{M}_{y}	Five unknowns. The reactions are two force and thre couple-moment components.
(7)	M_z F_y F_z M_x F_x	Five unknowns. The reactions are three force and two couple-moment components.
single thrust bearing		

continued

TABLE 5–2 Continued		
Types of Connection	Reaction	Number of Unknowns
single smooth pin	\mathbf{F}_{z} \mathbf{F}_{y} \mathbf{M}_{y}	Five unknowns. The reactions are three force and two couple-moment components.
(9) single hinge	\mathbf{F}_{x} \mathbf{F}_{x}	Five unknowns. The reactions are three force and two couple-moment components.
(10) fixed support	\mathbf{M}_{z} \mathbf{F}_{z} \mathbf{F}_{y} \mathbf{M}_{y}	Six unknowns. The reactions are three force and three couple-moment components.