

靜力學第六次作業解答

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1 6.1

For Stability: $m+r \geq 2j$, For Static Determinancy: $m+r=2j$

(a)

- $m=15, r=4, j=9 \Rightarrow$ Stable and Statically Indeterminate

(b)

- $m=15, r=3, j=9 \Rightarrow$ Stable and Statically Determinate

(c)

- Unstable, since the 3 reaction Components are concurrent.

(d)

- $m=15, r=4, j=9 \Rightarrow$ Stable and Statically Indeterminate

(e)

- $m=10, r=4, j=7 \Rightarrow$ Stable and Statically Determinate

(f)

- $m=11, r=4, j=8 \Rightarrow$ Unstable

(g)

- Unstable, since the 3 reaction Components are concurrent.

(h)

- $m=10, r=3, j=6 \Rightarrow$ Stable and Statically Indeterminate

(i)

- $m=12, r=3, j=7 \Rightarrow$ Stable and Statically Indeterminate

(j)

- $m=13, r=3, j=8 \Rightarrow$ Stable and Statically Determinate