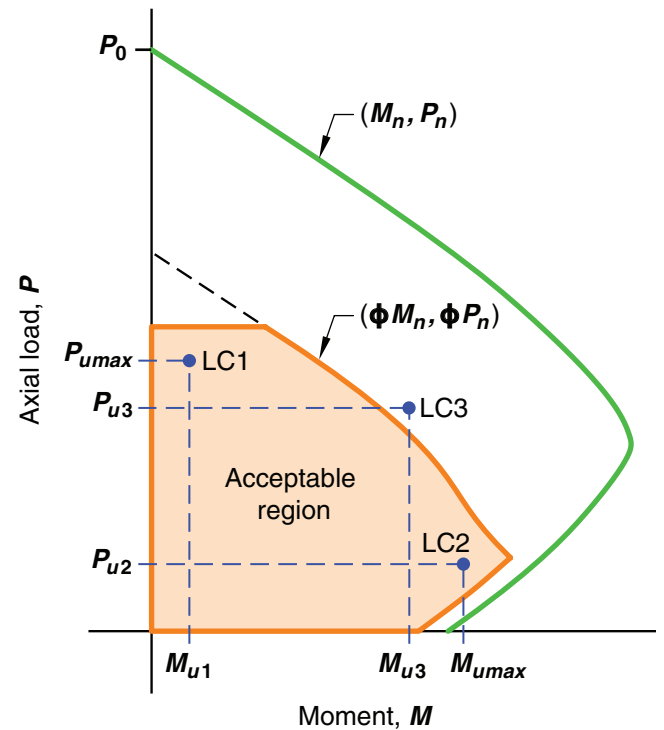**CODE**

COMMENTARY

Fig. R10.4.2.1—Critical column load combination.

10.5—Design strength
10.5.1 *General*

10.5.1.1 For each applicable factored load combination, design strength at all sections shall satisfy $\phi S_n \geq U$, including (a) through (d). Interaction between load effects shall be considered:
(a) $\phi P_n \geq P_u$
(b) $\phi M_n \geq M_u$
(c) $\phi V_n \geq V_u$
(d) $\phi T_n \geq T_u$

10.5.1.2 ϕ shall be determined in accordance with 21.2.

10.5.2 *Axial force and moment*

10.5.2.1 P_n and M_n shall be calculated in accordance with 22.4.

10.5.3 *Shear*

10.5.3.1 V_n shall be calculated in accordance with 22.5.

10.5.4 *Torsion*

10.5.4.1 If $T_u \geq \phi T_{th}$, where T_{th} is given in 22.7, torsion shall be considered in accordance with Chapter 9.

R10.5—Design strength
R10.5.1 *General*

R10.5.1.1 Refer to R9.5.1.1.

R10.5.4 *Torsion*

Torsion acting on columns in buildings is typically negligible and is rarely a governing factor in the design of columns.

Columns

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