



**Fig 5.19** Biaxial bending in columns

### 5.5.5 Section design

Sections subject to uniaxial bending should normally be designed using the charts in Appendix C. When biaxial bending occurs, a symmetrically reinforced rectangular column section may be designed using the charts in Appendix C for the moments given in Table 5.17.

<b>Table 5.17 Design moments for biaxial bending</b>			
		<b>y - axis</b>	<b>z - axis</b>
$\frac{hM_{zi}}{bM_{yi}} \geq 5$ OR $\frac{hM_{zi}}{bM_{yi}} \leq 0.2$	consider both:	(i)	$M_z$
		(ii)	0
All other cases:	If $\frac{M_z h'}{M_y b'} \leq 1$	$M_y + \frac{\beta h' M_z}{b'}$	0
	If $\frac{M_z h'}{M_y b'} \geq 1$	0	$M_z + \frac{\beta b' M_y}{h'}$
<b>Notes</b>			
<b>a</b> $b'$ and $h'$ are the effective depths (see Figure 5.19).			
<b>b</b> $\beta$ is obtained from Table 5.18.			