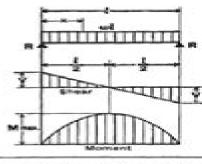
BEAM DIAGRAMS AND FORMULAS For various static loading conditions

AISC Beam Tables

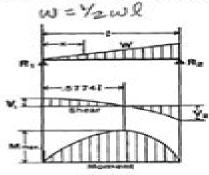
For meaning of symbols, see page 2 - 293

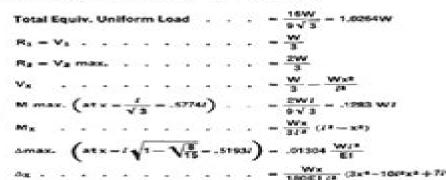
1. SIMPLE BEAM-UNIFORMLY DISTRIBUTED LOAD



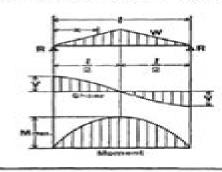
Total Eq	ultw.	Unit	онти	Los	bel	334	$\phi_{i,j}$		- mt
n - v	4			2		4			- - 2
٧x .		***					7		$- = \left(\frac{1}{2} - x\right)$
M max.	(*	t cen	ter.)	\$23				- m ²⁸
Mx .	*								- MIX (I-x)
Artnax.	(-	t cen	ter)	100			0.	- 5 m/* 384 E/
Ag .							-		$= \frac{wx}{24ET} (J^{2} - 2Jx^{2} + x^{3})$

2. SIMPLE BEAM-LOAD INCREASING UNIFORMLY TO ONE END





3. SIMPLE BEAM-LOAD INCREASING UNIFORMLY TO CENTER



Total Equiv. Uniform Load = $\frac{4W}{3}$ $R = V$ $\frac{W}{2}$ V_X (when $X < \frac{1}{2}$) = $\frac{W}{2I^2}$ ($I^2 - 4X^2$) M max. (at center)									572220
M max. (at center) $-\frac{WI}{6}$ Mx (when $x < \frac{I}{2}$) $-\frac{WI}{6}$ $\frac{1}{2} - \frac{2x^2}{3I^2}$) $\frac{1}{2} - \frac{2x^2}{3I^2}$	Total Eq	guiller.	Unife	emm Lo	a-d	140		-	- 3
M max. (at center) $-\frac{WI}{6}$ Mx (when $x < \frac{I}{2}$) $-\frac{WI}{6}$ $\frac{1}{2} - \frac{2x^2}{3I^2}$) $\frac{1}{2} - \frac{2x^2}{3I^2}$	n - v		1001		-	358			- W
M_X (when $x < \frac{1}{2}$) = $Wx \left(\frac{1}{2} - \frac{2x^2}{3I^2}\right)$ Δmax . (at center) = $\frac{WI^2}{60EI}$	V.	(-	hen x	$<\frac{1}{2}$)				40	$= \frac{\mathbf{W}}{2I^{2}} \left(I^{2} - 4\mathbf{x}^{2}\right)$
amax. (atcenter) WIR	M max.	(at cen	ter)					- WI
	MX	(-	hen x	$<\frac{I}{2}$)	-	1	•	30	$- w_{x} \left(\frac{1}{2} - \frac{2x^{2}}{3l^{2}} \right)$
$\Delta_X = \left(\text{when } X < \frac{1}{2} \right), \dots, = \frac{WX}{480 \text{ EI} / \pi} (5/\pi - 4X^2)^2$	amax.	(at cen	ter)		-			- WIT
	Δ×	(-	hen x	$<\frac{1}{2}$)	÷				- Wx (5/# -4x#)

Aisc Manual Beam Design

Theodore V. Galambos, National Research Council (U.S.). Transportation Research Board, National Cooperative Highway Research Program



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