Liven	: m = 250 kg K =	= 105 N/m	Unknown: b)	
	Determne b Cor				Systems
Soluti	on: Standard Equat	ion for dumpe	ened hornov	nic motion:	
	$\int \mathbf{w} \times \mathbf{v}$	x+ V=0			
	Characteristic				
	$r^2 + \frac{b}{m}r +$		Substitule	values	
	$r^2 + \frac{b}{250}r +$				
	$\int_{-2}^{2} \frac{b}{250} \int_{-20}^{2} \frac{21}{50} =$	0 r=	62-4ac		
S-1-0-	r=62-4ac			iculty dampan	
801 (-C	$\int = b^2 - 4ac$ $\int = \left(\frac{b}{2so}\right)^2 - 4($	$\frac{21}{50}$		ver dempened	
	$\frac{b^2}{62500} = 1.68$	Ь	= 324 N	s/m critico	ما
	6 x 324 Ns	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1324 N	s/m inder de	impered
		b=	324 Ns	In overdang	ened
Sligh	t overdomping u	varb be o	ugy bi	H for a Cam	rela
Systo	m critical dans	permy wer'	ld be b	outler	