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	Fietx =	Fpry + Far -kx + -b -kx -bx	V _X = MX	Assence	ha ear dra	Fry	= -b/v/1	,
	Define: b	$x^{2} + bx + k$ $= 2\beta c$	x = 0	= \langle \frac{k}{m} =	€ New Turn	1 Fres	eng	
ANDER LEAGUE ES TRANSPORTARIOS PARAMENTOS ES ANTICADOS PARAMENTOS ES ANTICADOS PARAMENTOS ES ANTICADOS PARAMENTOS ES ANTICADOS PARAMENTOS PARAMENTO	The auxilian	+ 2 Br + w32	īs = 0					
1965年 《大学》 《 " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "	(= -	$-2\beta \pm \sqrt{4\beta^2}$ $-\beta \pm \sqrt{\beta^2}$ $X = C_1 e^{-7t}$	82	-zt 13	a soluti			
は 1月 1月 1月 1月 1月 1月 1月 1	[L. J. W.]	where 17 =	-B+ 1p	-wil an	defended	-13-1B	To	Page N
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Thus, the general	1 50 (a) 1 / t	Fr Cre (-18-182	-cy: 6	
1 - C, e = - 134 C	e 182-ce	1- C2 e 12/+ - C2 e	2-032-67	
Ordansed socie			Jus 7 as ex	-10 c Lo d
Weak daypry (or under	-daugled")		
VB2-W02 =	6 Vano 3	$3^2 - \omega_0^2$ is morn $3^2 - \omega_0^2$ is morn	e a = [w] =	
1 x = E	Car Se	$\omega_{i}t + C_{i}e^{-i\omega_{i}t}$	t-s) as do	
$X = e^{-\beta t} A co$	(w,t-	s) Bis fre	e decay court	
decaylu A(t) = e	oscillato amplitude Ao	/ - 25 - 10	the amplifiede	to decay.
sed & Understood by me,	Date	Dis a rate Invented by	that A dies To	Page No

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Strong Dauping ("overdamped")

Brwo then Br-wor is real

 $x(t) = C(e^{\beta + \sqrt{\beta^2 - \omega_0^2}})t + C_2e^{-(\beta + \sqrt{\beta^2 - \omega_0^2})}t$ $= C_1e^{-(\beta - \sqrt{\beta^2 - \omega_0^2})}t + C_2e^{-(\beta + \sqrt{\beta^2 - \omega_0^2})}t$

Both Luckers are exponential decays with the second term decaying more quickly o

It doesn't oscillate, so to speak.

Critical Damphay

B=wo, then B2=wo2 and VB2-wo2 =0

The auxiliary exerting is T= -B which gives

However we must have two solutions x = Czte-pt

Is also a solution.

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Date

Invented by

Date

The general solution is $X = C_1 e^{-\beta t} + C_2 t e^{-\beta t}$

In this case, the oscillation dangers at the juickest rate. often, are wants oscillations to dampen out quickly (such as for a magnet in a liquid Lilled compass or a weedle in a bathroom scale of

B= wo gives quickest damply.

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