

**Response of a SDOF system ($m=600.0t$, $T=0.6s$, damping ratio $z=0.20$)
to a triangular loading (peak value=4000kN @ $t=1.00s$, returns to zero @ $t=3.00$)**

	Dati	t	$p(t)$	$\sin(wd t)$	$\cos(wd t)$	$p*cos$	$p*sin$	$A(t)$	$B(t)$	$x(t)$	$z=0\%$	$z=2\%$	$z=5\%$	$z=10\%$
m	600000	0.0000	0.0	0.0000	1.0000	0.00	0.00	0.000E+00	0.000E+00	0.000E+00	0	0	0.000E+00	0.000E+00
T	0.6	0.0600	24000.0	0.5775	0.8164	19593.92	13859.23	6.754E-05	0.000E+00	3.900E-05	3.959E-05	3.9585E-05	3.955E-05	3.945E-05
z	0.2	0.1200	48000.0	0.9429	0.3331	15986.95	45259.45	3.643E-04	-1.271E-04	3.012E-04	0.0003179	0.00031625	3.138E-04	3.096E-04
wn	10.47197551	0.1800	72000.0	0.9621	-0.2726	-19625.89	69273.55	7.276E-04	-5.272E-04	8.437E-04	0.00091417	0.00090546	8.931E-04	8.745E-04
wd	10.26039864	0.2400	96000.0	0.6281	-0.7781	-74701.46	60296.70	8.512E-04	-1.100E-03	1.391E-03	0.0015426	0.0015206	1.491E-03	1.448E-03
dt	0.06	0.3000	120000.0	0.0634	-0.9980	-119758.35	7611.65	4.667E-04	-1.523E-03	1.550E-03	0.00176338	0.00172963	1.685E-03	1.624E-03
edt	0.881911378	0.3600	144000.0	-0.5245	-0.8514	-122601.36	-75530.83	-4.712E-04	-1.413E-03	1.450E-03	0.00166697	0.00163546	1.593E-03	1.534E-03
e2dt	0.777767679	0.4200	168000.0	-0.9199	-0.3922	-65889.53	-154539.86	-1.696E-03	-5.536E-04	1.777E-03	0.00193862	0.00192586	1.906E-03	1.868E-03
dt/(2 m wd)	4.87311E-09	0.4800	192000.0	-0.9775	0.2110	40512.84	-187677.14	-2.693E-03	9.290E-04	2.828E-03	0.00288475	0.00289357	2.900E-03	2.895E-03
p0	400000	0.5400	216000.0	-0.6762	0.7367	159134.37	-146055.65	-2.913E-03	2.540E-03	3.841E-03	0.00373606	0.00375493	3.778E-03	3.806E-03
t1	1	0.6000	240000.0	-0.1266	0.9920	238068.76	-30385.30	-2.033E-03	3.580E-03	3.808E-03	0.00352677	0.00354855	3.581E-03	3.641E-03
t2	3	0.6600	264000.0	0.4695	0.8830	233099.95	123937.14	-1.657E-04	3.436E-03	2.956E-03	0.00258899	0.00262342	2.673E-03	2.756E-03
		0.7200	288000.0	0.8932	0.4498	129530.37	257227.30	2.109E-03	1.893E-03	2.735E-03	0.00241806	0.00247604	2.550E-03	2.643E-03

Response to triangular load

