

Frequenties en eigenvormen van het torsietrillingsmodel

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Frequenties en eigenvormen van het torsietrillingsmodel.

Uitgegaan is van de volgende waarden voor I en C.

I:	lichte schijf	schijf met verzwaring	C
1	1,27	1,91 kgf cm sec ²	73500 kgf cm/rad
2	1,27	1,91	73500
3	1,27	1,91	61300
4	4,02	6,03	

In de code staat of de 1e, 2e, 3e en 4e schijf zonder (o) dan wel met verzwaring zijn (1).

Code	$\omega^2 \text{rad}^2/\text{sec}^2$	f Hz	ampl. rad.	moment in as kgf cm	restmoment
0000	18774	21,81	1,0000 0,6756 0,1320 -0,5710	23843 39951 43100	2,0
	90113	47,76	1,0000 -0,5571 -1,2467 0,2539	114444 50692 -91990	-12,8
	186124	68,66	1,0000 -2,2160 1,6947 -0,1512	+236377 -287440 113155	26,4
1000	15736	19,96	1,0000 0,5910 0,0214 -0,6686	30056 41868 42297	4,9
	80018	45,02	1,0000 -1,0794 -1,6664 0,3923	152834 43145 -126198	-2,8
	179865	67,50	1,0000 -3,6740 3,0704 -0,2844	343542 -495714 205645	30,1

Code	$\omega^2 \text{rad}^2/\text{sec}^2$	f Hz	ampl. rad	moment in as kgf cm	restmoment
0100	17253	20,91	1,0000 0,7019 0,0891 -0,6775	21911 45041 46993	2,3
	85577	46,56	+1,0000 -0,4787 -0,8929 0,1935	108683 30442 -66596	-14,7
	153396	62,33	1,0000 -1,6505 2,2783 -0,2514	194813 -288766 155071	+25,8
1100	14953	19,46	1,0000 0,6114 -0,0147 -0,7609	28560 46023 45743	1,6
	72527	42,86	1,0000 -0,8847 -1,1020 0,2933	138527 15970 -85534	-8,6
	149354	61,51	1,0000 -2,8812 4,4200 -0,5025	285266 -536635 301745	69,8
0010	18708	21,77	1,0000 0,6767 0,1347 -0,5937	23759 39838 44652	3,1
	71559	42,57	1,0000 -0,2365 -1,1805 0,3197	90880 69390 -91964	-1,6
	169179	65,46	1,0000 -1,9232 0,7756 -0,0768	214857 -198362 52252	5,6
1010	15735	19,96	1,0000 0,5911 0,0215 -0,6720	30054 41866 42512	4,2
	64347	40,37	1,0000 -0,6721 -1,5970 0,4960	122903 67975 -128297	-1,3
	159971	63,66	1,0000 -3,1571 1,4124 -0,1487	305545 -335856 95694	79,4

Code	$\omega^2 \text{rad}^2/\text{sec}^2$	f Hz	ampl. rad	moment in as kgf cm	restmoment
0101	14567	19,21	1,0000 0,7483 0,2133 -0,4925	18500 39320 43267	7,2
	84117	46,16	1,0000 -0,4535 -0,9157 0,1259	106829 33976 -63848	-10,0
	152459	62,14	1,0000 -1,6343 2,2063 -0,1576	193623 -282287 144906	47,0
1101	12525	17,81	1,0000 0,6745 0,1295 -0,5576	23923 40059 42119	6,0
	70988	42,40	1,0000 -0,8447 -1,1312 0,1890	135587 21054 -80926	-22,4
	148236	61,28	1,0000 -2,8522 4,2827 -0,3153	283135 -524414 281859	8,1
0011	15918	20,08	1,0000 0,7250 0,2505 -0,4426	20216 34871 42488	4,6
	69446	41,94	1,0000 -0,2000 -1,1600 0,1989	88196 70561 -83299	-4,9
	168998	65,43	1,0000 -1,9201 0,7667 -0,0489	214627 -197479 49997	137,2
1011	13327	18,37	1,0000 0,6537 0,1568 -0,5040	25455 36518 40510	6,2
	61918	39,60	1,0000 -0,6090 -1,5665 0,3077	118263 70372 -114884	-16,1
	159725	63,61	1,0000 -3,1507 1,3941 -0,0948	305075 -334042 91268	8,4

Code	$\omega^2 \text{rad}^2/\text{sec}^2$	f Hz	ampl. rad	moment in as kgf cm	restmoment
0110	17231	20,89	1,0000 0,7023 0,0901 -0,6923	21883 44996 47960	5,1
	70957	42,40	1,0000 -0,2261 -1,0353 0,2833	90115 59478 -80832	-9,1
	132472	57,93	1,0000 -1,2890 0,8593 -0,1117	168239 -157898 59524	27,3
1110	14952	19,46	1,0000 0,6115 -0,0147 -0,7586	28558 46020 45601	5,3
	62019	39,64	1,0000 -0,6117 -1,2375 0,4034	118456 46002 -100591	-9,1
	124297	56,11	1,0000 -2,2300 1,7430 -0,2437	237407 -292018 121784	21,4
0001	16116	20,20	1,0000 0,7215 0,2421 -0,4135	20467 35235 40191	7,1
	88177	47,26	1,0000 -0,5236 -1,2494 0,1628	111985 53349 -86569	-17,5
	185634	68,57	1,0000 -2,2076 1,6657 -0,0964	235755 -284687 108020	104,4
1001	13379	18,41	1,0000 0,6523 0,1539 -0,4865	25554 36638 39252	5,7
	77892	44,42	1,0000 -1,0241 -1,6699 0,2506	148774 47464 -117727	-17,1
	179264	67,39	1,0000 -3,6584 3,0151 -0,1811	342394 -490502 195925	164,6

Code	$\omega^2 \text{rad}^2/\text{sec}^2$	f Hz	ampl. rad	moment in as kgf cm	restmoment
0111	14458	19,14	1,0000 0,7502 0,2185 -0,5174	18362 39078 45112	3,3
	69003	41,81	1,0000 -0,1923 -1,0398 0,1796	87634 62290 -74748	-15,4
	132116	57,85	1,0000 -1,2828 0,8386 -0,0698	167787 -155922 55682	77,8
1111	12496	17,79	1,0000 0,6753 0,1313 -0,5721	23867 39984 43117	8,1
	59929	38,96	1,0000 -0,5573 -1,2467 0,2547	114464 50669 -92035	-1,9
	123760	55,99	1,0000 -2,2161 1,6949 -0,1516	236382 -287458 113189	82,1