

1 Parameteridentifikation

1.1 Dateiname

Lagerparameter_X1Nstat_30Ndyn_X2krpm_mit_shimsX3

X1	Statische Last [N]
X2	Drehzahl [$\times 1\,000\text{ min}^{-1}$]
X3	Dicke des Shims [μm]
30Ndyn	dynamische Anregung [N]

1.2 Struktur der Datei

	A	B	C	D	E	F	G	H	I
	f_anregung...	K _{xx} _mean	K _{xy} _mean	K _{yy} _mean	K _{yx} _mean	C _{xx} _mean	C _{xy} _mean	C _{yy} _mean	C _{yx} _mean
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1	f_anregung...	K _{xx} _mean	K _{xy} _mean	K _{yy} _mean	K _{yx} _mean	C _{xx} _mean	C _{xy} _mean	C _{yy} _mean	C _{yx} _mean
2	79.6097560...	0.51867244...	-0.0686172...	0.96943111...	-0.0677390...	0.00076722...	0.15986705...	0.81196414...	0.05193701...
3	99.9024390...	0.63477235...	-0.1162926...	1.10435809...	-0.0880205...	0.00123790...	0.27347097...	1.10065214...	0.11269536...
4	120.195121...	0.46955666...	-0.1116889...	0.96849257...	-0.1784997...	0.00082998...	0.12233402...	0.95739319...	0.09793338...
5	139.707317...	0.48258419...	-0.1538361...	0.98223743...	-0.1376933...	0.00073465...	0.11019717...	0.79345570...	0.07207034...
6	160	0.80401726...	-0.0693521...	1.45184198...	-0.1648876...	0.00067795...	0.25786989...	0.68449246...	0.13926421...
7	179.512195...	1.07571032...	-0.0588305...	1.47324483...	-0.1077505...	0.00056431...	0.13910506...	0.50511195...	0.15499398...
8	199.804878...	1.03464883...	-0.0995306...	1.35263926...	-0.0754910...	0.00069581...	0.24056336...	0.58171327...	0.21495093...
9	219.317073...	1.07519623...	-0.1093583...	1.54033054...	-0.0475676...	0.00066916...	0.22807911...	0.69939299...	0.25345190...
10	239.609756...	1.89419394...	-0.1694877...	1.61493559...	-0.0699392...	0.00101153...	0.19151633...	0.73922834...	0.33814598...
11	259.902439...	1.34472056...	-0.0896170...	1.79705230...	-0.0080859...	0.00046778...	0.04477971...	0.45873052...	0.12286393...
12	279.414634...	1.38547017...	-0.0845088...	1.50020424...	-0.0950792...	0.00036472...	0.04639153...	0.29100269...	0.07095121...
13	299.707317...	1.60378861...	-0.0569126...	1.67902694...	-0.1428142...	0.00048079...	0.12524738...	0.33362692...	0.03132710...
14	319.219512...	1.23842290...	-0.2266120...	1.53074809...	-0.2756018...	0.00040920...	0.08147634...	0.31948662...	-0.0156698...
15	339.512195...	1.29791593...	-0.2259506...	1.48995983...	-0.2178383...	0.00031815...	0.04317663...	0.25156705...	0.01227705...
16	359.804878...	1.65577938...	-0.1247892...	1.66494609...	-0.1360645...	0.00030654...	0.07774014...	0.23056611...	0.06483189...
17	379.317073...	1.86817750...	-0.0292608...	1.90934034...	-0.0266443...	0.00031776...	0.10013883...	0.24894843...	0.08374185...
18	399.609756...	1.92777287...	-0.0001024...	1.92388807...	-0.0280178...	0.00020410...	0.12650852...	0.28928448...	0.11754486...

Position	
1	Anregung [Hz]
2	K_{xx} Steifigkeit in x bei einer Anregung in x [MN/m]
3	C_{xy} Dämpfung in x bei einer Anregung in y [kNs/m]
4	K_{yy} Steifigkeit in y bei einer Anregungskraft von 160 Hz in y

x=[Frequenz]

y=[K_{xx}_mean]

plot(x,y)