

Physics 303

Initial Conditions for CO₂ Normal Modes Homework

To use this table find your name in the first column and then scan across that row to find the initial values of x_1 , x_2 , x_3 , v_1 , v_2 , and v_3 at $t = 0$. You will use the *Mathematica* commands we demonstrated in class. More details on those commands are in the notebook `eigen1.nb` which can be found at the following address

<https://facultystaff.richmond.edu/~ggilfoyl/cm/notebooks.html>

on the course website.

Name	Index	x_{1i}	x_{2i}	x_{3i}	v_{1i}	v_{2i}	v_{3i}
Adil	1	d0	d0	0	0	0	0
Aguilar	2	d0	0	d0	v0	0	0
Aung	3	d0	0	d0	v0	-v0	0
Babcock	4	d0	-2*d0	d0	0	0	0
Balsamo	5	0	0	d0	v0	0	0
Bowles	6	d0	0	-d0	v0	0	v0
Emery	7	d0	0	-d0	v0	0	-v0
Fan	8	-d0	0	d0	v0	v0	0
Fryer	9	0	0	0	0	-v0	0
Goetz	10	0	0	-d0	v0	0	-v0
Haider	11	0	0	-d0	v0	0	v0
Ironi	12	d0	0	-d0	v0	0	v0
Jaffe	13	0	-d0	d0	-v0	0	0
James	14	d0	d0	d0	-v0	0	0
Kenneally	15	0	0	0	v0	v0	-v0
Maiarana	16	0	0	0	v0	-v0	v0
Moreno	17	0	0	0	0	v0	-v0
Quinn	18	0	0	0	v0	2*v0	0
Raffin	19	0	0	0	v0	0	-2*v0
Schroeder	20	0	0	0	v0	v0	-3*v0
Seo	21	d0	0	d0	2*v0	0	-3*v0
Strockoz	22	0	0	0	-v0	v0	-0.5*v0
Waksman	23	0.6*d0	0	d0	v0	0	0
Wang	24	d0	0	d0	0	0	-2*v0
Wenzel	25	d0	0	-d0	v0	v0	0
Wilhelm	26	d0	-d0	d0	v0	-v0	v0