

Problem 2.50 (Adv. Strength & Applied Stress Analysis, Budynas, 2nd): Using a computer or spreadsheet program or a mathematics software package, create a program which will accept a stress and transformation matrix and evaluate the transformed stress matrix accordingly. demonstrate the program on Example 2.1-1.

4.0000	5.1962	-3.0000		0.7071	0.7071	0.0000	-8	6	-2	0.7071	-0.6124	0.3536
5.1962	-4.8005	2.7133	"=	-0.6124	0.6124	0.5000	6	4	2	0.7071	0.6124	-0.3536
-3.0000	2.7133	-8.1995		0.3536	-0.3536	0.8660	-2	2	-5	0.0000	0.5000	0.8660
σ'			"=	T			σ			T^T		
							-1.4142	7.5732	-6.6818			
							7.0711	-0.2247	2.4392			
							0.0000	-0.0505	-5.7443			