

RAD

**** Radiation Between Opaque, Gray, and 'Diffuse Surfaces ****

Specified Number of Surfaces:

6

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6

Surface Temperatures (K):

500.000	600.000	550.000	700.000	650.000	750.000
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Surface Areas (m2):

0.500	0.500	0.250	0.250	0.125	0.125
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Surface Emissivities:

0.300	0.400	0.800	0.800	0.600	0.700
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View Factors:

0.000	0.509	0.167	0.167	0.079	0.079
0.509	0.000	0.167	0.167	0.079	0.079
0.334	0.334	0.000	0.164	0.084	0.084
0.334	0.334	0.164	0.000	0.084	0.084
0.315	0.315	0.167	0.167	0.000	0.036
0.315	0.315	0.167	0.167	0.036	0.000

Summation of the View Factors for each surface

1.001	1.001	1.000	1.000	1.000	1.000
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Elements of The Augmented Matrix:

1.00	-0.36	-0.12	-0.12	-0.06	-0.06	1063.12
-0.31	1.00	-0.10	-0.10	-0.05	-0.05	2939.33
-0.07	-0.07	1.00	-0.03	-0.02	-0.02	4150.72
-0.07	-0.07	-0.03	1.00	-0.02	-0.02	10890.94
-0.13	-0.13	-0.07	-0.07	1.00	-0.01	6072.78
-0.09	-0.09	-0.05	-0.05	-0.01	1.00	12558.16

Calculated Radiosities (W/m2):

7536.67	8265.16	6031.60	12557.76	9522.81	15085.61
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Calculated Heat Transfer Rates (W):

-855.63	-305.61	-843.20	1055.91	112.22	832.60
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Summation of the Heat Transfer Rates (W):

-3.706