

Example 9-3 Solution

$\bar{L}$ (m)	ΔL (m)	n' (#/mkg)	n'' (#/mkg)	$n'\Delta L$	$n''\Delta L$	$n'L\Delta L$	$n''L\Delta L$
1.74E-05	4.00E-06	1.81E+12	1.76E+12	7.24E+06	7.04E+06	1.26E+02	1.22E+02
2.19E-05	5.00E-06	4.36E+11	5.57E+11	2.18E+06	2.79E+06	4.77E+01	6.10E+01
2.76E-05	6.40E-06	2.45E+11	3.21E+11	1.57E+06	2.05E+06	4.33E+01	5.67E+01
3.48E-05	8.00E-06	2.18E+11	2.34E+11	1.74E+06	1.87E+06	6.07E+01	6.51E+01
4.38E-05	1.01E-05	1.38E+11	1.76E+11	1.39E+06	1.78E+06	6.10E+01	7.79E+01
5.52E-05	1.27E-05	1.39E+11	1.81E+11	1.77E+06	2.30E+06	9.74E+01	1.27E+02
6.96E-05	1.60E-05	6.40E+10	9.30E+10	1.02E+06	1.49E+06	7.13E+01	1.04E+02
8.77E-05	2.02E-05	3.80E+10	4.80E+10	7.68E+05	9.70E+05	6.73E+01	8.50E+01
1.11E-04	2.54E-05	7.00E+09	1.30E+10	1.78E+05	3.30E+05	1.97E+01	3.67E+01
1.39E-04	3.20E-05	4.00E+09	3.00E+09	1.28E+05	9.60E+04	1.78E+01	1.33E+01
1.75E-04	4.03E-05	6.00E+08	1.20E+09	2.42E+04	4.84E+04	4.23E+00	8.46E+00
2.21E-04	5.08E-05	0.00E+00	9.00E+08	0.00E+00	4.57E+04	0.00E+00	1.01E+01

summations: 1.80E+07 2.08E+07 6.17E+02 7.67E+02

μ_0'

μ_0''

μ_1'

μ_1''

$\Delta\mu_0$

2.79E+06

$\Delta\mu_1$

1.51E+02

$\bar{\mu}_0$

1.94E+07

$\bar{\mu}_1$

6.92E+02

Δt

900