Results of Absorber Test

Parameters Given

Parameter	Material 1	Material 2
σ_t	2/101	200/101
c	0.00	0.00
λ	101/20	101/20

Results

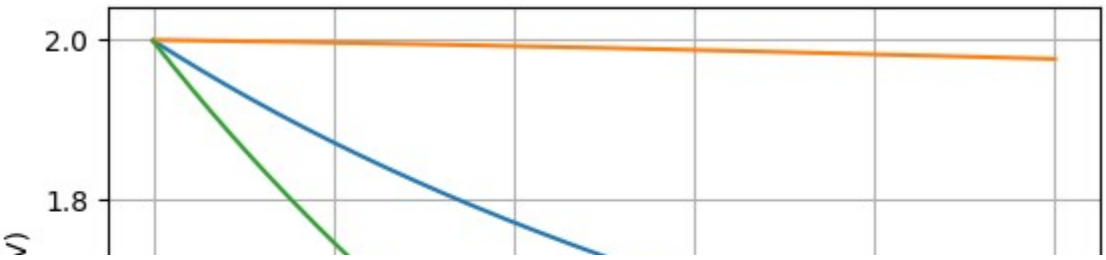
The exact values are those resulting from 1×10^8 realizations for all thicknesses (a pure absorber case is simple to calculate).

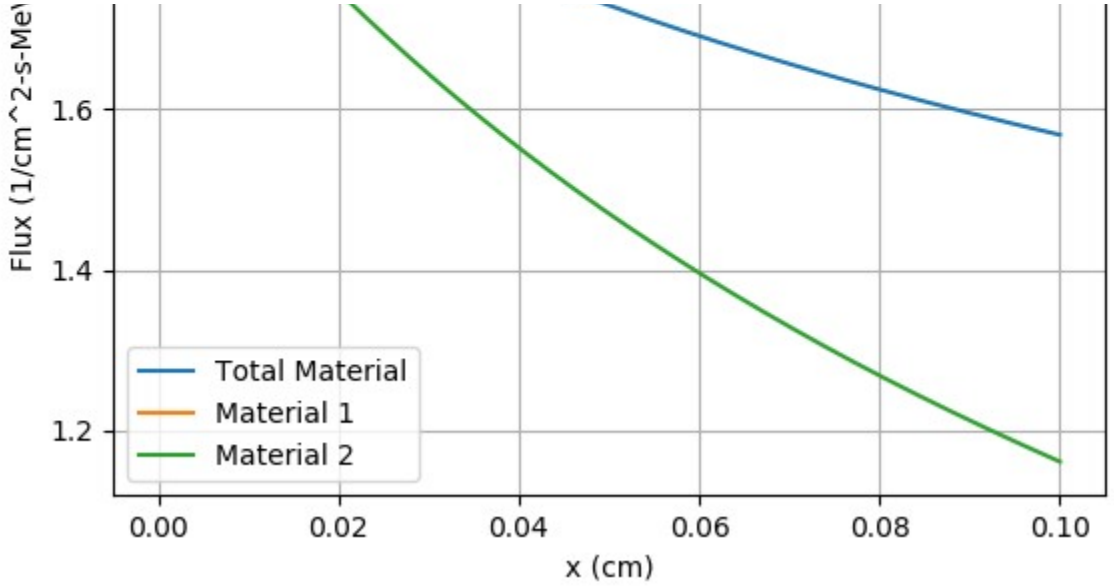
The model values are those resulting from a convergence to 1×10^{-9} percent error between iterations.

Thickness = 0.1

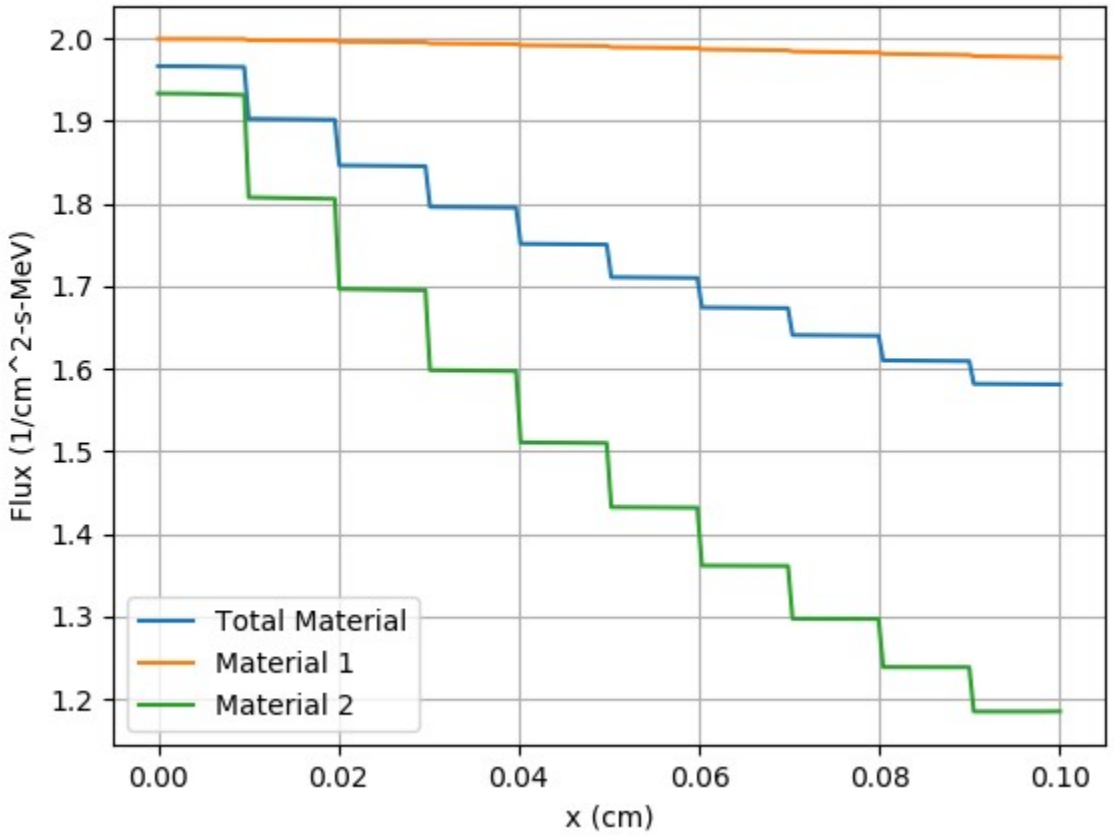
Parameter	Calculated Exact	Calculated Model
Reflection	0.0000000	0.0000000
Transmission	0.8519521	0.8519832

Thickness = 0.1 Model Plot





Thickness = 0.1 Exact Plot

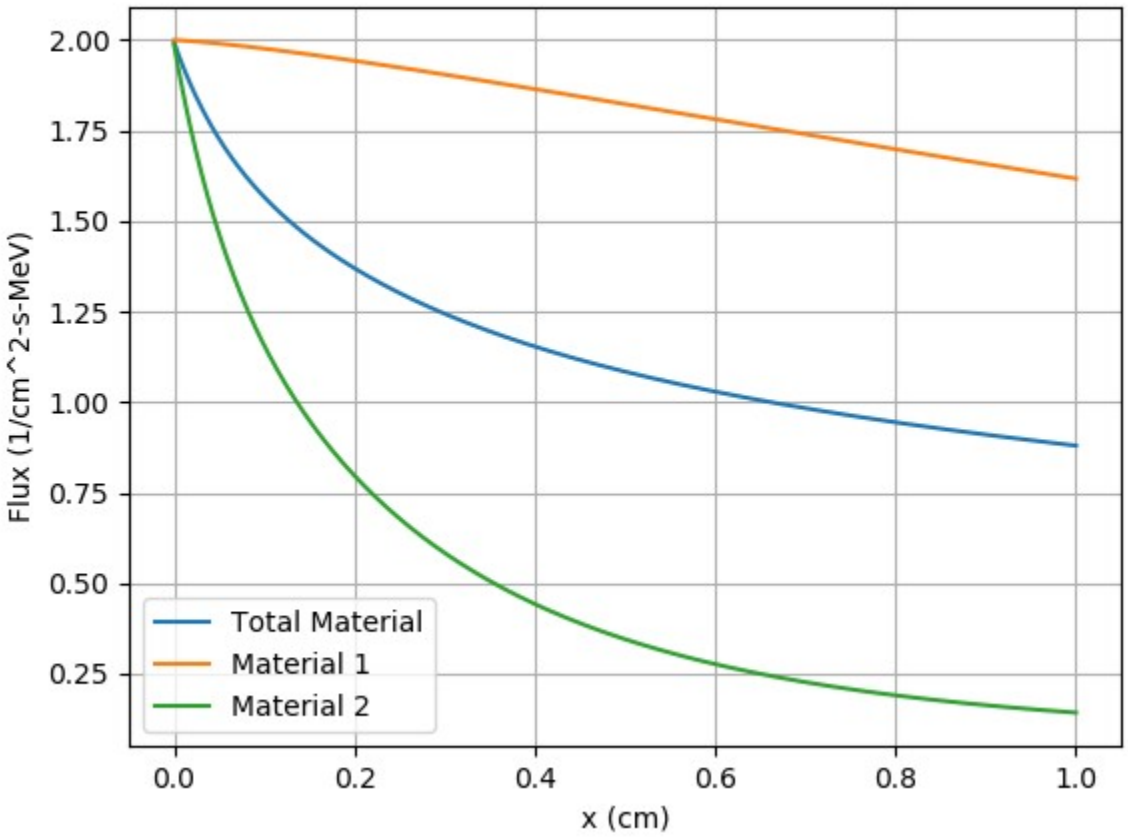


Thickness = 1.0

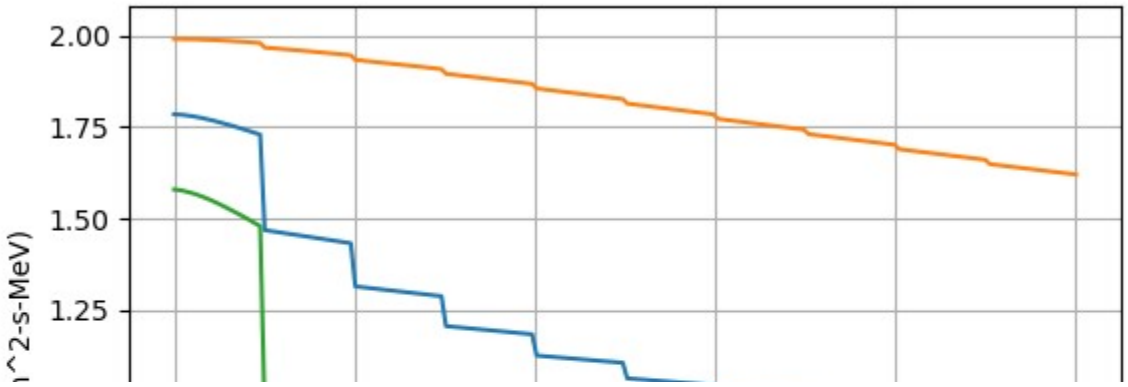
Parameter	Calculated Exact	Calculated Model

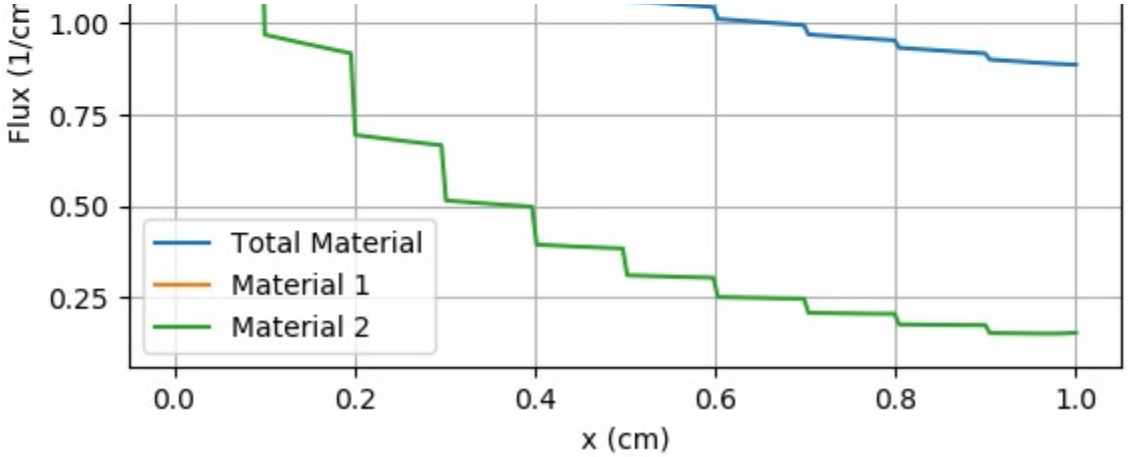
Parameter	Calculated Exact	Calculated Model
Reflection	0.0000000	0.0000000
Transmission	0.4751757	0.4756388

Thickness = 1.0 Model Plot



Thickness = 1.0 Exact Plot

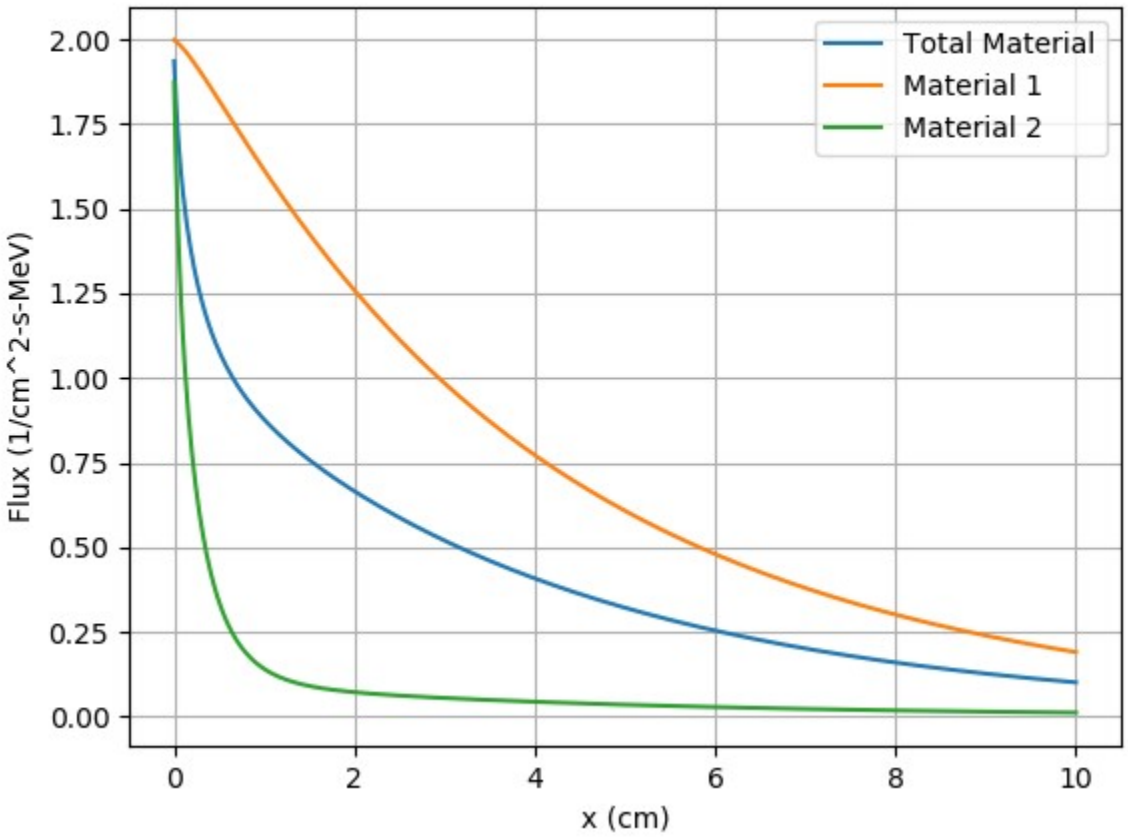




Thickness = 10.0

Parameter	Calculated Exact	Calculated Model
Reflection	0.000000	0.0000000
Transmission	0.0647808	0.0641339

Thickness = 10.0 Model Plot



Thickness = 10.0 Exact Plot