

Material Properties

Alejandro Campos

April 30, 2025

Contents

1	Diffusivity	2
2	Viscosity	3
3	Thermal conductivity	4
4	Electrical conductivity	5
5	Electron-ion coupling	6
6	Stopping power	7
7	Ionization	8
8	Equation of state	9
9	Opacity	10

Chapter 1

Diffusivity

Chapter 2

Viscosity

Chapter 3

Thermal conductivity

Chapter 4

Electrical conductivity

Chapter 5

Electron-ion coupling

Chapter 6

Stopping power

Chapter 7

Ionization

Chapter 8

Equation of state

Chapter 9

Opacity