

COMSOL 3.5a Modifications

An Introduction to Modeling of Transport
Processes

A. Datta and V. Rakesh

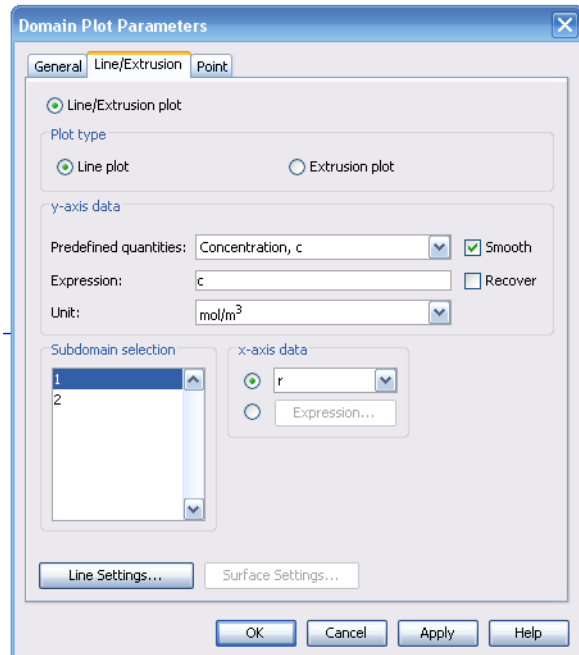
[MODIFICATIONS TO SOFTWARE INSTRUCTION]

Following pages provide the required modifications, due to version changes in the software, to tutorials and other software instruction in the book An Introduction to Modeling of Transport Processes by Datta and Rakesh (2010) . These pages pertain to version 3.5a.

Case Study VII: Radioimmunotherapy of metastatic melanoma (COMSOL Version 3.5a)

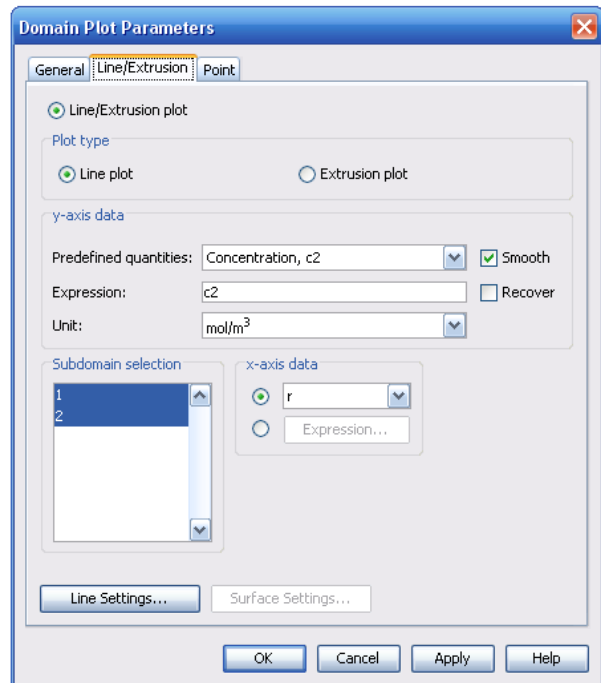
Read Step 2 under Postprocessing.

Select **Concentration, c** under **Predefined quantities** on the **Line/Extrusion** tab.



Homework 3 Under Assignments on the course website, click on “What to Submit” and go to point 4 on the first page and make the following replacement:

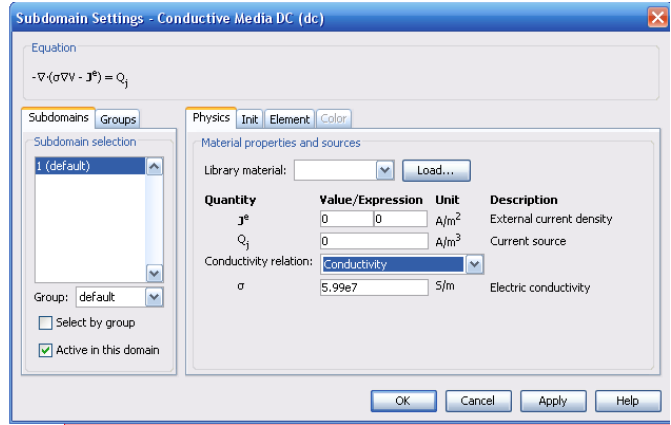
- i. After running the problem, go to **Postprocessing >> Domain Plot Parameters >> Line/Extrusion Tab.**



Case Study IX: Radiofrequency cardiac ablation (COMSOL Version 3.5a)

Refer to “Subdomain Settings”

(4) Select **Conductivity** in the Conductivity relation box. Set σ as 0.222. Click **OK**.



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Define expressions

(2) Expression for Q_blood should be $2000 \cdot (310.15 - T)$