

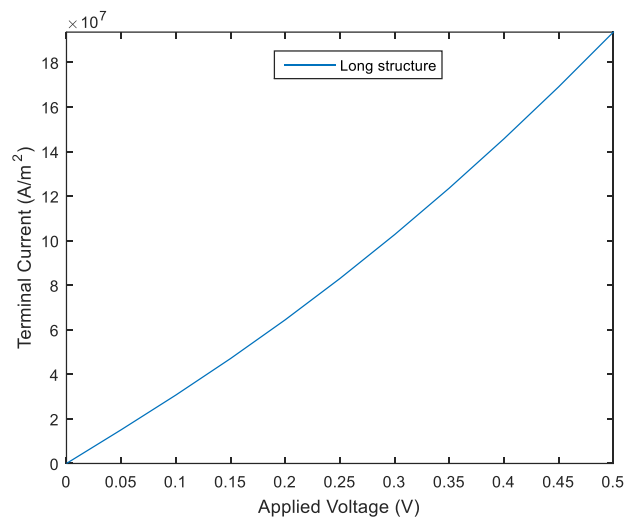
Homework #13

20152052

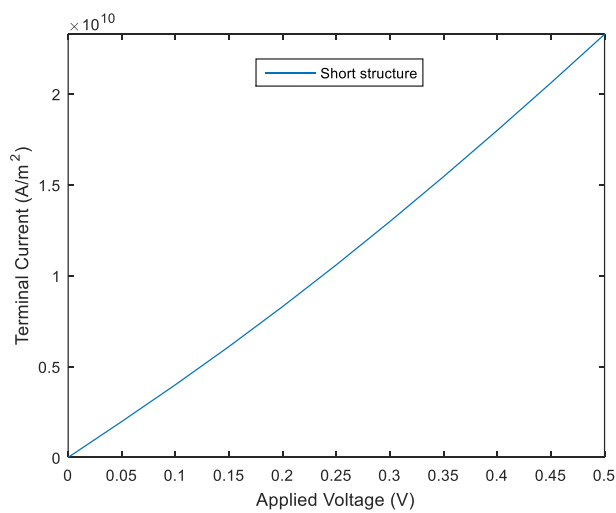
SoonHee Park

13-1 Draw IV curve of circuit composed of source and resistivity. (Scharfetter-Gummel scheme)

i) Long structure



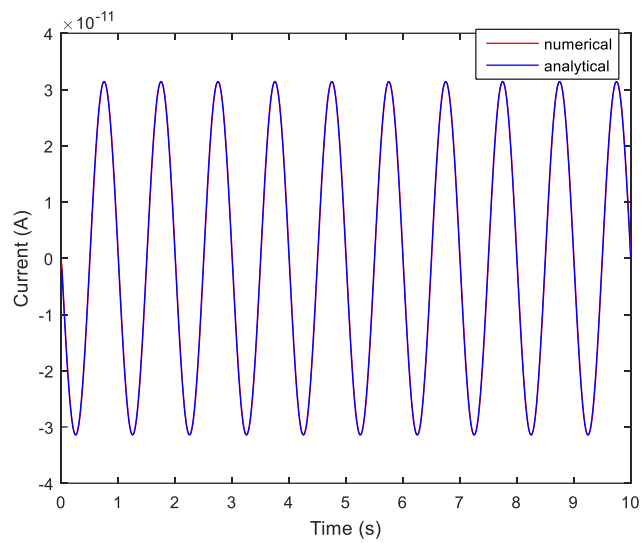
ii) Short structure



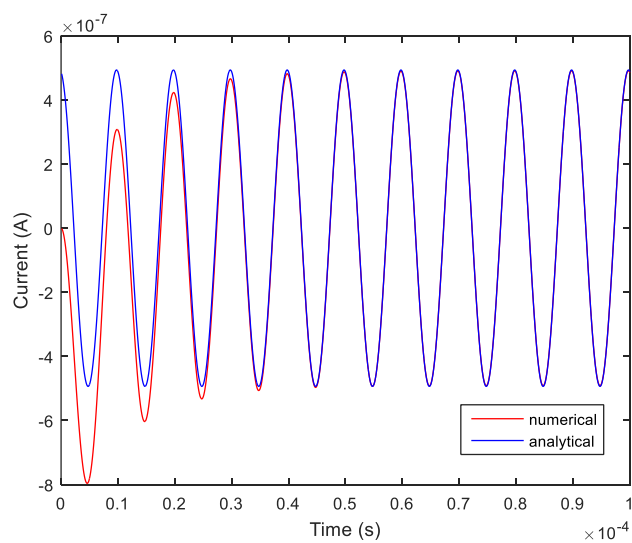
#

13-2 Draw IV curve include RC filter.

i) Frequency : 1Hz



ii) Frequency 10^5 Hz



As frequency becomes larger, there is significant difference between analytical and numerical solution at initial part of time