

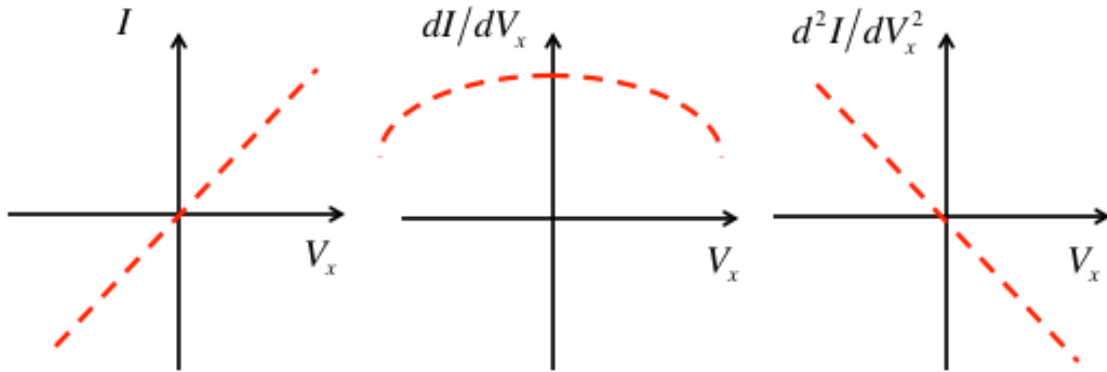
Essentials of MOSFETs

Lecture 5.6: A Second Look at Compact Circuit Models

Short Problem

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The results of a Gummel Symmetry Test should look like the sketches below.



Use the Square Law Model for a MOSFET and answer the following question.

- 1) For small V_{DS} , compare I vs. V_x , dI/dV_x vs. V_x , and d^2I/dV_x^2 vs. V_x to the results shown above. How does the Square Law Model compare? You need only consider the first quadrant of the graphs.