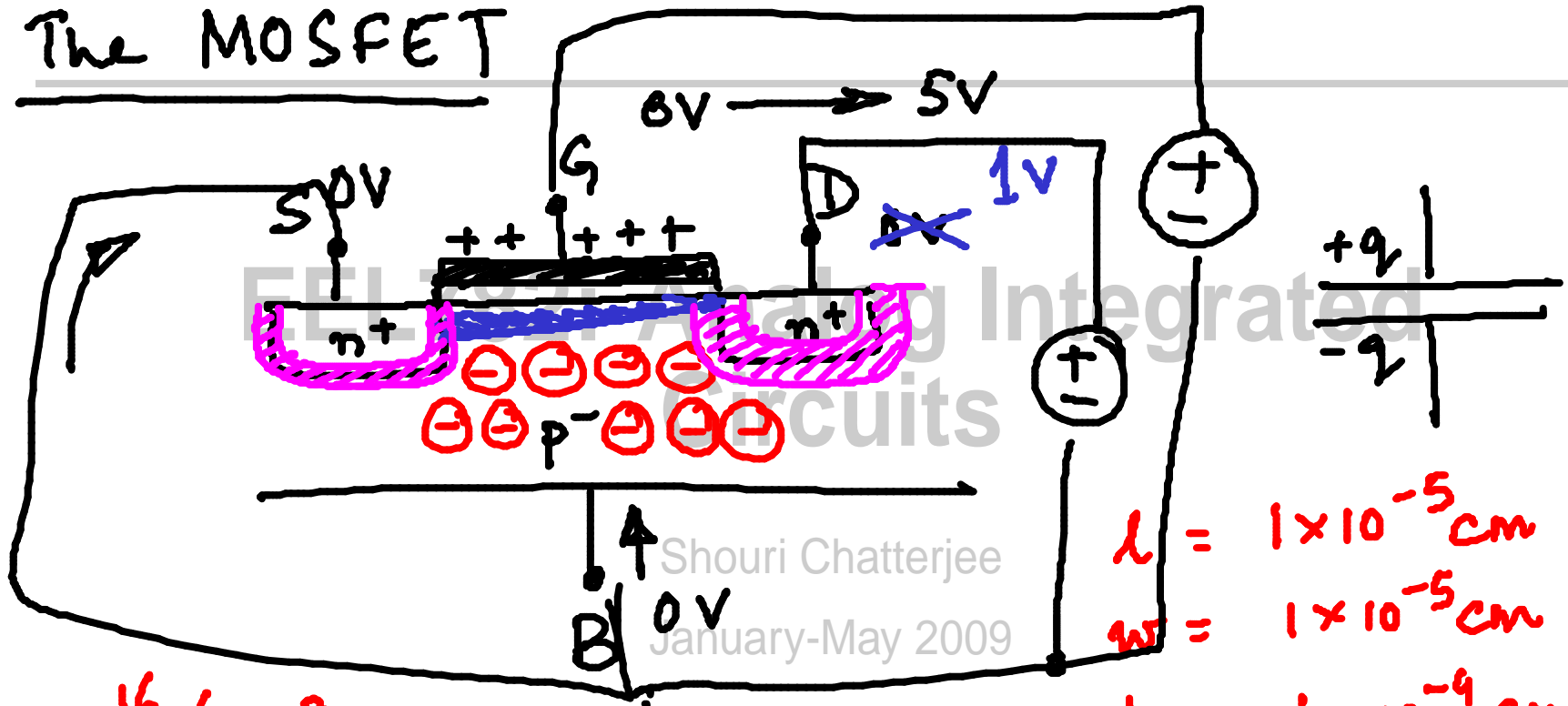


# The MOSFET

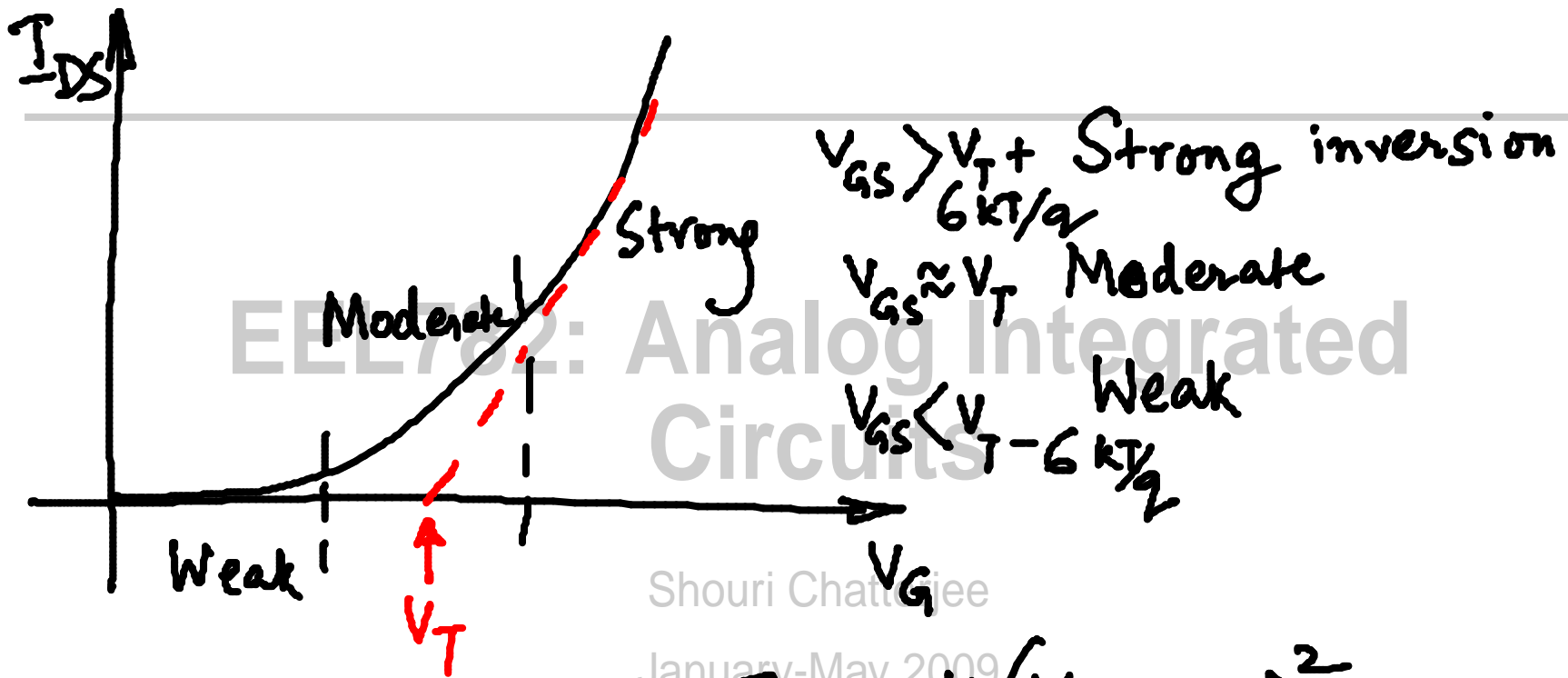


$p = 10^{16} / \text{cm}^3$   
 $n = 10^4 / \text{cm}^3$

$l = 1 \times 10^{-5} \text{ cm}$   
 $w = 1 \times 10^{-5} \text{ cm}$   
 $d = 1 \times 10^{-4} \text{ cm}$   
**Volume =  $1 \times 10^{-14} \text{ cm}^3$**

Department of Electrical Engineering,  
 Indian Institute of Technology, Delhi  
 Hauz Khas, New Delhi 110016





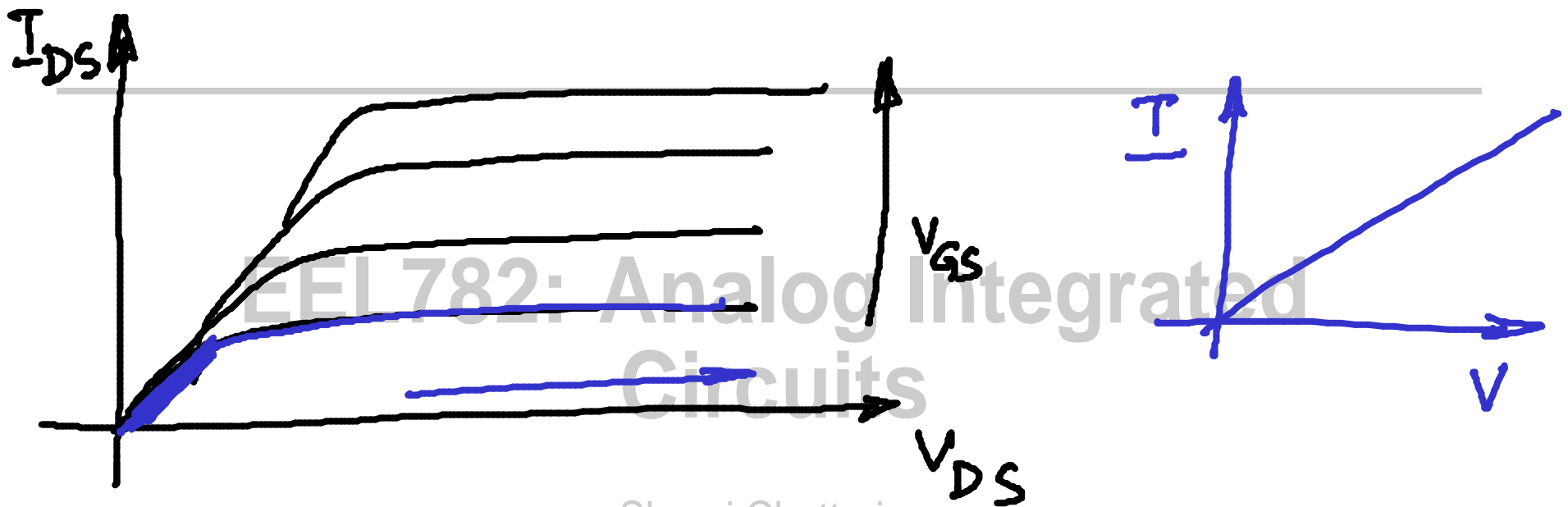
Shouri Chattopadhyay

January-May 2009

$$I_D = K (V_{GS} - V_T)^2$$

Department of Electrical Engineering,  
 Indian Institute of Technology, Delhi,  
 Hauz Khas, New Delhi 110016





MOSFET



VCCS

Shouri Chatterjee  
January-May 2009

VC Switch

Department of Electrical Engineering,  
Indian Institute of Technology, Delhi,  
Hauz Khas, New Delhi 110016

