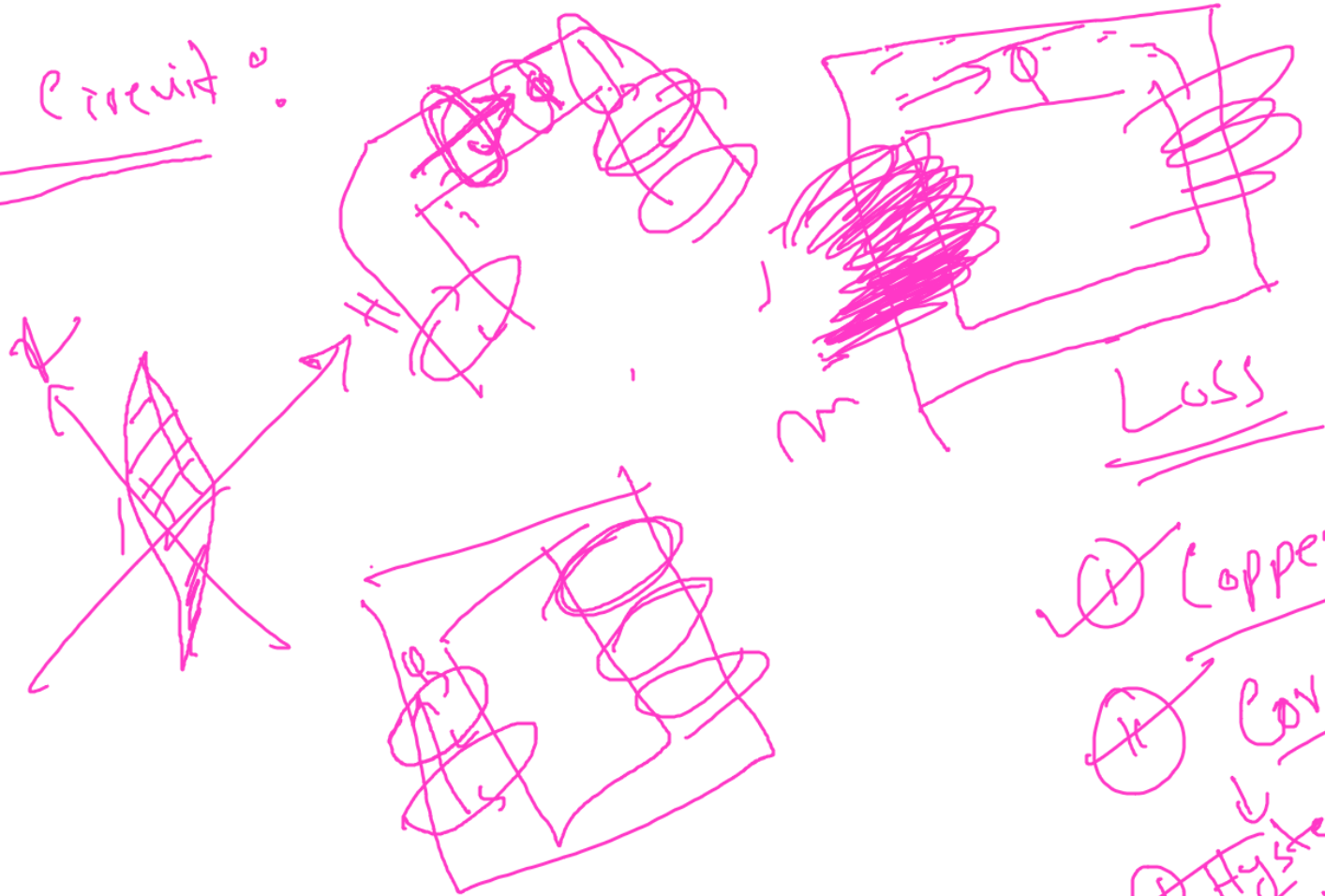
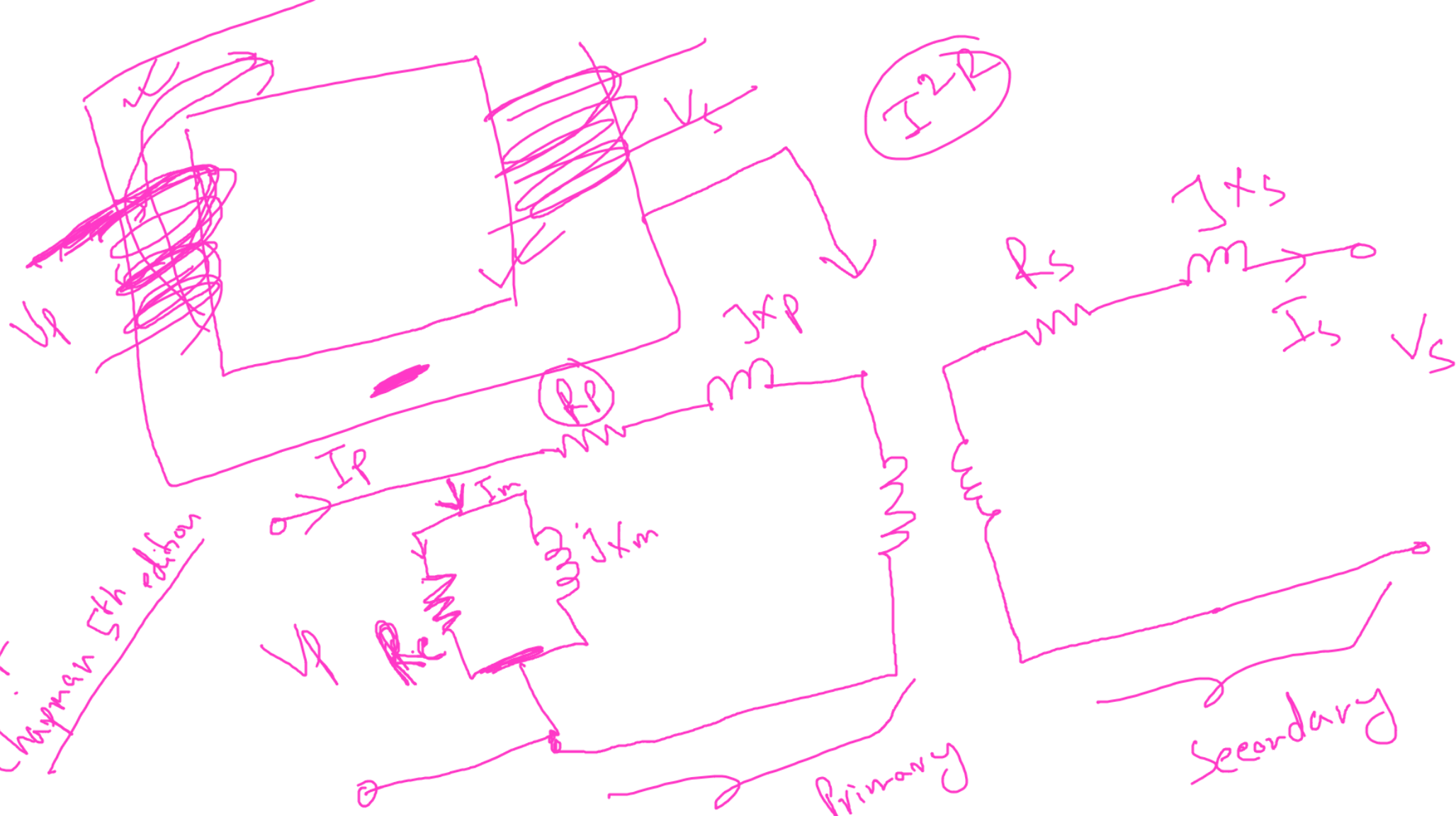


Equivalent circuit:



- (i) Copper
- (ii) Core loss
 - ↓
 - (a) Hysteresis loss
 - (b) Eddy current loss

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Chapman 5th edition



Per unit Method

(S_{base}, V_{base})

$$S = V I^* = I^2 Z \frac{V^2}{Z^*}$$

$$V = I R$$

~~Unit~~
 $S_{base} = 500 \text{ VA}$

$$V_{base} = 100 \text{ V}$$

(V_{air})

$S = 1000 \text{ VA}$
$V = 1000 \text{ V}$

Per unit!

~~S_{pu}~~

$$V_{pu} =$$

$$= \frac{1000}{500}$$

$$= \frac{1000}{100}$$

(2)

(10)

(~~*~~)