The Hall Effect ERAD EMILIANI ANTONIOR

Summark - The ain of the Calaratory and a closerve the Hall voltage generated across a semicarductor when a magnetic field B is applied perpendicular to an elatic aurent of intensity I that travels frough that somironductor - expriment that allows determining the eign of the charge course in a carductor or somicarductor such as a flet stip of copper. -> The Hall Effect on be used to choose between two possibilities: as a contradict side with the mappine induction of setup at right only o the stip. This giold exacts the forentz 名の: F= 2.可x B (1) -> the onio and to dift to be off side, producing a targe potential difference , by , between the sides x and y - the styn of the olonge carros is dolarinal by Vry. - 3 of the onis are partie , a mill be at a Propor positive Johnston Henry -> is the charge conies are negative the x side becomes negative and the g table foreign positive = 44 the september of the series OH the April 6 the payment on applica (c) #= #3 Spiller to 1393 -) , and y will build up => Hall vallage will inverse to available for when the applicable five quale the founts force all = e oB - The 4600 related wellings on be married by voing the court n-density of charge comiss and the speed becomes v= naved (5)

The take vallage can be about as

$$U_H = VBd = \frac{1}{RE} \frac{IB}{R} = R_H \frac{IB}{R}, (6)$$

$$R_H = \frac{A}{R} \frac{2MP - R_H R_R}{R_H - R_H R_R} \qquad (7)$$

$$\mu = \frac{A}{E} - \text{mobility of the array carries}$$

$$T = \text{ne } \mu - \text{electric conductanty}$$

$$R_H = \frac{A}{R} \frac{R_H R_R}{R_H - R_H R_R} \qquad (7)$$

$$T = \text{ne } \mu - \text{electric conductanty}$$

$$R_H = \frac{R_H R_R}{A} \qquad (8)$$
In electrical terrangues, the Hall experts used:

the effectived techniques, the Hall effects used:

I had plante the strongent (H) includion (B) of magnetic floors

I had plante the strong to Fo.

I in maximit the effective power and more white in abbrecture

evants.

2.5					2			7.7				BH			
	0.28					0.25			0.2						
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27,2	21,0	HIRI	6.9	23,2	1776	3-1-1	5/4	1017	1010	12 2	0.0	1111	mW	C.F.	
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					- 1	10								Dawy o	9
Sylly and an extra production of Chargos products of the control o					200-10-3									Carll's	

$$\frac{I_{5}B}{\alpha} = \frac{1}{15} \text{ mm}$$

$$\frac{I_{5}B}{\alpha} = \frac{2 \cdot 0.12}{1.5} = 0.126$$

$$\frac{I_{5}B}{\alpha} = \frac{4 \cdot 0.12}{1.5} = 0.53$$

$$= \frac{6 \cdot 0.12}{1.5} = 0.06$$

$$= \frac{8 \cdot 0.12}{1.5} = 6.33$$

$$= \frac{4 \cdot 0.125}{1.5} = 0.66$$

$$= \frac{6 \cdot 0.25}{1.5} = 1$$

$$= 1.33$$

$$= \frac{1.33}{1.5} = 0.137$$

$$= 1.43$$

$$\frac{1}{9} = \frac{1}{8} - \frac{1}{4} = \frac{22}{12} - \frac{12}{12} = \frac{10}{0.5} = \frac{20}{0.5}$$

$$\frac{1}{9} = \frac{1}{8} - \frac{1}{4} = \frac{1}{12} - \frac{1}{2} = \frac{10}{0.5} = \frac{20}{0.5}$$

$$\frac{1}{9} = \frac{1}{16} \cdot \frac{1}{10} - \frac{1}{3} = \frac{1}{16} \cdot \frac{1}{10} = \frac{1}{10}$$

