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CURRENT ELECTRICITY

[1]. Resistance of a uniform oencluctor of length \lfloor area of cross-section A and resistivity p along its
length,. R =
(4. Current crertstity J = (311. Conductance G _=
$ 41Drift yelocilty V_{al} = \frac{eE}{m} = (4. Current I \neq Av_d)$
164Besistivityr is p M 1 where er is resistivity. net Cr
$\{711According to Ohm's law j = and V = iR$ fulobirity of Free electrons
(511 = nep. { M. Thermal resistivity of matibrital.
Ili). Potential difference acrost a cell uring dinharging $V = g - it = \frac{\varepsilon_{11}}{R + r}$
112). Potential difference acros5 a cell during charging $V=c$ -Fir
113] For n cells in series across load R, current through load = $\frac{1}{fk t It}$
(14). For n identical tells in parallel across load R, current through load t = $\frac{SIC}{rIR 4}$ R ₁ R_2 R_4
(15). Wlienstane kiric180. network
For balanced Wheatstone bridge $R_{=}^{R_{3}}$
(16). If unknown resistance X it In the left gap, known resistance R Fs in the right gap of meter bridge and
balancing length from left end Is I then X = $7Q - 0$
{17] Potentiometer

(I) Comparisen $emf_{g}^{F_{g}} = \frac{1}{\binom{1}{2}}$

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