

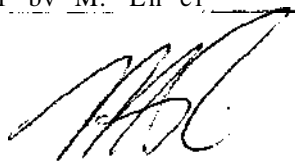
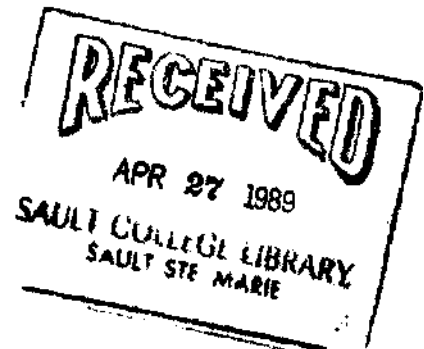
SAULT COLLEGE  
of Applied Arts and Technology  
Sault Ste. Marie

COURSE OUTLINE

HY J ^ - 2

revised

, 1981 by M. En^el

A handwritten signature in black ink, appearing to be 'ABC' or similar initials, written over a horizontal line.

Textbook Technical Physics by : Bueche, 2nd Edition

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- The SI system

• r C c v ^ \* ^ - < x a - y ^ accuracy of Measurement

^

u e L ] sin

vr^rieti.c v^Gld. field strength  
ar.a-, Dia- and Ferrc- Kagnetism  
^•-"iantnt ::,se,ue ti sm, hvsteresls curve

12 *Direct current* Electricity - ~~Direct current~~

→ *Structure Electricity*  
DC circuits series-, ::;arallel- ^nd  
series -parallel circuits  
i>. iTi easure T7;ent of res ist:::ice , vc^ tags s an;  
current fl c"sS  
— batteries  
— Kirchoff's Laws

Elect\_r OTIS 3 ne 11 C .LP. 0 u c 11 on

- factors influ€ncing SL  
:rid U ced current

'Cave Motion

- 'Huvgatis Principles  
- ~":eflection, Fefraction  
- Snell's Law  
"-•^n L erference

ec trci" a. er ell c wa^e s

- el f c i r o i T i a c. n e 11 c s u e c t r v m  
- m a t i o n o f A w a v e s . Q s r r a - r i B r n i t t e r

11- *CP fi t ' - f x t ' h*  $\ddot{m} \cdot \dot{x} = \dot{p} = \dot{m} v$  / rucAr'rfy-

*DC - current*  
*Resistance in a*

-3 ~~gas laws~~ — f y r ^ - ' ^ ^ ^ y ^ Y , ) iff^Tn^\*^—^

S^ys\_tens of^Measmre

- The SI system
- Conversions between systems
- accuracy of Measurement

Magnetism

- ~ magnetic field, field strength
- para-, Dia- and Ferro- Magnetism
- remanent magnetism, hysteresis curve

12

Electricity

- ~ DC circuits series-, parallel- and series-parallel circuits
- measurement of resistance, voltages and current flows
- ~ batteries

Electromagnetic Induction

- factors influencing strength of induced current

Electromagnetic Waves, — —

- electromagnetic spectrum
- formation of H-M waves around a transmitter

Radioactivity

- definitions
- properties of alpha-, beta-, and gamma-radiation
- radioactive materials
- decay series
- half life

Fluorescence

- materials

$$v = \frac{c}{\lambda} \quad \text{or} \quad \lambda = \frac{c}{v}$$