- 3. DC motor is started and brought to rated speed by adjusting theostat.
- 4. Keeping the TPST upon, alternatur field thorstat is energized.
- By varying alternator field (beostat, the field (b) current is varied in steps, and E.-(internal emf.) is noted.
- 6. Above procedury is noted till 125% of rated voltage.

#### SHOULT CIRCUIT TEST

- 1. TPST switch is closed.
- By varying alternator field theostat, the field current, (L) is varied in steps and corresponding short current (L<sub>i</sub>) is noted.
- Above procedure is repeated till rated current is reached.

#### ZPE TEST

- 1. DC motor is run at rated speed by adjusting motor field rhoustat.
- 349 ZPF load is connected to alternator by closing TPST switch.
- By alternatively varying field theoretat, ZPF load, alternator is made to deliver rated current. Readings are noted.

#### DRAWING ZPECLIEVE

- OCC is denser.
- Point A is located such that GA gives I<sub>i</sub> corresponding to I<sub>mad</sub>. Under short circuit lest.
- 3. Point B is located such that it gives by to voltage from ZPF test.
- Points A and B joined by cores parallel to OC called ZPF curve.
- 5. From the curve, ZPF curve is extended.
- 6. From H, HD is drawn pseudlet to OCC line.
- 2. From B, BH is drawn parallel and equal to OA.
- 3. Point D is point to B and BHD is tangent is obtained.

# Em 2 Lab Manual

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on micro organisms including methods of study and classification It then goes on to describe their morphology physiology biochemistry and genetics A discussion on soil micro organisms along with pathogenic forms and their effect on plants is also given The text concludes with a fairly detailed account of microbial biotechnology which covers most of the recent advances in the area This is the second edition of the author s highly successful earlier edition for which Dr Selman A Waksman dis coverer of Streptomycin write the Foreword The author worked with this Nobel Laureate at Rutgers State University

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