

Evaluation of settings

for the DB - reach of the find tripping ruley should over-reach the next terminal - based on this principle the given setting (a thy) can be correct if:

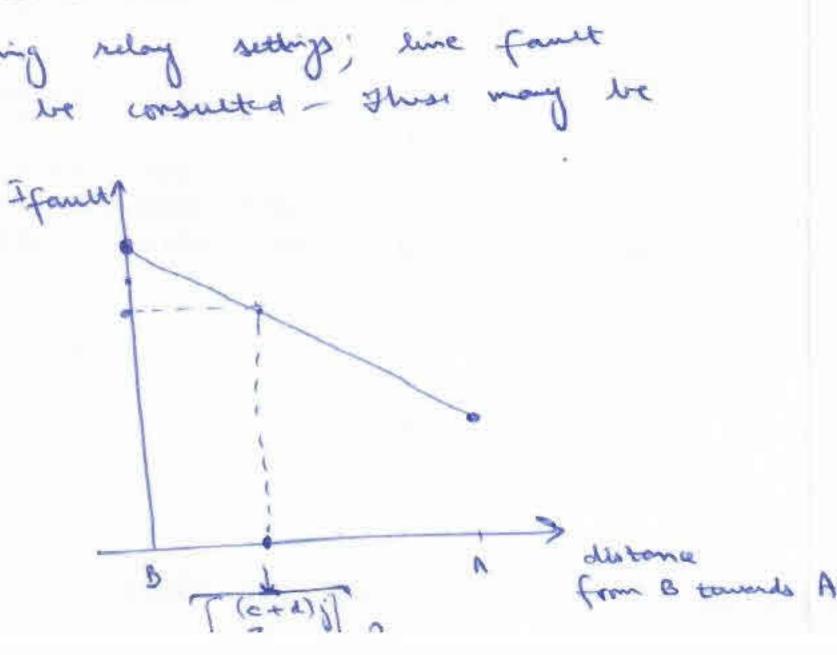
(a+bj)-2 > 1.2 - 1.5 times of Z oc Similarly for the relay at station (,

(c+dj)-2 > 12-15 times of 2BC-

Ease of Blocking relay The blocking relay at B has to be more sensitive than the reach of the forward bripping relay RCB whose setting is (c+dy)-1 -

To evaluate the blocking relay settings; line fault characteristics need to be consulted - This many be show here

fault airent lowers as we go from B to A-At the reach limit of KCB - fund - trip; the distance as measured from B is (C+1) - ZCB -



(C+d) as measured from (

should be

nearly equal

to radius of

iting circle-

The prokup value of the O(. relay which will generate a blocking signal should be lower than the I-f-min at the point of (c+dj)-Zco-in the fault characteristics of the AB line—
This will answer that its reach is farther than the reach of the find tripping relay Rco-Again sketching R-X diagram

Cose of famile R

Cose of famile in

Section AB 
A famile have many
band to current flow

lower when Ipu of

rew. blocking O.C relay

but at the same time,

this famile Z will add to

Zseen of RCB - The relay

RCB with su was outside its

reach of (c+dj) -> & have

not opurate wheth And this is

the correct action

Case 2 fault on BC line

Zsein may be beyond C

but still in reach of RBC

which will trip—

& no blocking signal will

be then b/c fault is actually on line BC

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& derection O.C. blocking ruley does not see it

Case 3 family beyond Cre in CB

An impedance family may push

Zseen out of reach for RBCbut itis is not a problem as

I pu of rev. blocking

O C relay should

be able to detect

a minimum fourt

up to this point

i.e beyond reach

of relay RCB

