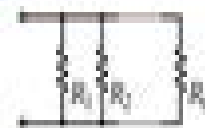


PRINCIPLES OF ELECTRICITY

To lower the resistance of a route, the higher the proportion of electrons flowing through it.

There are multiple routes through which electrons can flow.

The proportion of electrons flowing each route depends on the resistance of each route to the flow of current.



$$\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} + \dots + \frac{1}{R_n}$$

parallel circuits

resistors

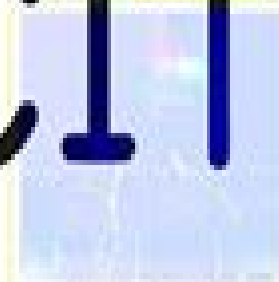
Resistor

ELECTRICITY



3 phase AC produced in a power station

Generation of electricity



Transformer increasing



Resistance

Basic Principles Of Electricity

Anna Cretì, Fulvio Fontini



Basic Principles Of Electricity:

Basic Principles of Electricity Vester Robinson, 1973 **Rudimentary Electricity: being a concise exposition of the general principles of Electrical Science, and the purposes to which it has been applied** Sir William Snow HARRIS, 1851 **Electrical Principles** Peter Phillips, 2019-06-01 Supports learning and delivery in UEE30811 Certificate III in Electrotechnology Electrician UEE22011 Certificate II in Electrotechnology Career Start Phillips *Electrical Principles* uses a student friendly writing style a range of fully worked examples and full colour illustrations to make the basic principles easier to understand Covering the core knowledge components of the current UEE11 Electrotechnology Training Package and referencing the new AS NZS 3000 2018 Wiring Rules this textbook is structured written and illustrated to present the information in a way that is accessible to students With a new focus on sustainable energy brushless DC motors and the inclusion of student ancillaries as well as structuring more closely to the knowledge and skills requirements for each competency unit covered *Electrical Principles 4e* is the ideal text for students enrolled in Certificate II and III Electrotechnology qualifications With more than 800 diagrams hundreds of worked examples practice questions and self check questions this edition is the most up to date text in the market The writing style is aimed at Certificate III students while retaining the terminology typically used in the Electrical Trades Additionally the technical content does not break into a level above that of Certificate III At all times the book uses illustrations integrated with the text to explain a topic

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