

EXPT NO. 1: RESISTANCE PER UNIT LENGTH OF WIRE

1. What is a resistance?

Ans: It is the opposition offered by a conductor for the flow of current in it.

2. What are the factors on which resistance of a conductor depends?

Ans: It depends on resistivity (ρ), length (L) and area of cross-section (A) of the conducting wire.

3. State Ohm's law.

Ans: at constant temperature and other physical conditions are same, electric current (I) in a conductor is directly proportional to the potential difference (V) across its ends.

4. What is the function of rheostat in the experiment?

Ans: to vary current in a circuit.

5. What is the SI unit of resistance?

Ans: ohm (Ω)

6. What is meant by one ohm resistance?

Ans: resistance of a conductor is said to be one ohm if a potential difference of one volt across its ends produces a current of one ampere in it.

7. What is the function of resistance in a circuit?

Ans: To control current in the circuit.

8. How does current vary with resistance?

Ans: at constant potential difference, current is inversely proportional to resistance.

9. Why an ammeter is not connected in parallel?

Ans: If an ammeter is connected in parallel, the effective resistance of the circuit decreases. A large current flows in the circuit which may damage the ammeter.

10. Why a voltmeter is not connected in series?

Ans: If a voltmeter is connected in series, the effective resistance of the circuit increases and hence current in the circuit decreases.

EXPT NO. 2: RESISTIVITY OF THE MATERIAL OF A WIRE

1. What is specific resistance (resistivity)?

Ans: It is the resistance offered by a conductor of unit length and unit area of cross-section at constant temperature.

2. Why manganine or constantan or nichrome wire is used in a rheostat?

Ans: It is because, they have high resistivity (ρ) and low temperature co-efficient of resistance (α).

3. How does resistivity of wire depend on length and area of cross-section of its wire?

Ans: Resistivity (ρ) of a conductor does not depend on length and area of cross-section of its wire.

4. What is resistance of a wire?

Ans: It is the opposition offered by the wire for the flow of current in it.

5. What is conductivity?

Ans: It is the reciprocal of resistivity ($\sigma = 1/\rho$)

6. What is the SI unit of resistivity?

Ans: SI unit of resistivity is ohm-metre (Ωm)

7. What is the SI unit of conductivity?

Ans: SI unit of conductivity is mho per metre ($\Omega^{-1}\text{m}^{-1}$)

8. What are the factors on which resistivity of a conductor depend?

Ans: Resistivity depends on nature of the conductor and temperature.

9. How does resistivity of a wire depends on its temperature?

Panchayat Viva Voce Questions

**Matthew R. Jones, Arunima S.
Mukherjee, Devinder Thapa, Yingqin
Zheng**

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Home Science Sharda Gupta, Shubh Sadhna Sahay, Savita Sharma, Home Science book **Democracy and Development** Ram Chandra Prasad,1971 On Indian village panchayat system *Manual for Local and District Level Planning* Sant B. Gurung,Prodipto Roy,1981 Gram Panchayats Planning Amitava Mukherjee,2021-01-01 The book gives the Conceptual Specifications for Gram Panchayat Planning for development combining available human social institutional ecological environmental and physical resources for the well being of the community as key to planning at Village and Gram Panchayat levels The book deals with the principles of Gram Panchayat Planning which will act as guideposts and touchstones while preparing and implementing the village or Gram Panchayat Plans The nuts and bolts of preparing a Village and Gram Panchayat Plan entailing physical plan financial plan resource financial resources human resources social resources or social capital natural resources and financial resources plan and a spatial plan are detailed The book then deals with capacity building of all functionaries involved directly in Gram Panchayat Development planning and in facilitating such planning as village and Gram Panchayat Planning is a facilitated process The book includes indicative ways of imparting a set of functional skills for facilitating Gram Panchayat planning as is necessary for initiating community development through praxis It shows how to build the Capability Spectrum in terms of knowledge skills and attitudes and hence behaviour that the Gram Panchayat planning team must necessarily possess for Gram Panchayat planning in their communities This will be invaluable for local level planners development practitioners Government and Gram and Nagar Panchayat level functionaries trainers in planning and participatory approaches and students of economic development **Women's Education and Empowerment in Rural India** Jyotsna Jha,Neha Ghatak,Niveditha Menon,Priyanka Dutta,Shreekanth

Mahendiran,2019-06-20 This is a book about understanding women s empowerment and pathways as well as roadblocks to women s economic empowerment in rural India as understood through an evaluation based research of a state funded social sector programme located in the education department Mahila Samakhya MS in Bihar one of the socially and educationally most underdeveloped Indian states The book presents findings of the three year research that adopted a mixed methods approach and evaluated the impact of MS on various facets of empowerment of women coming from the most marginalized communities The study therefore tries to go beyond evaluating the MS programme and uses the research findings and insights to raise certain critical issues pertaining to social policy planning and implementation especially in the context of women s education and empowerment Please note Taylor Francis does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka

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Globalisation, Inequity and Climate Change Matthew R. Jones,Arunima S. Mukherjee,Devinder Thapa,Yingqin

Zheng,2023-12-06 This book constitutes the refereed proceedings of the IFIP WG 8 2 and WG 9 4 Joint Working Conference on After Latour Globalisation Inequity and Climate Change IFIPJWC 2023 held in Hyderabad India during December 7 8 2023 The 15 full papers presented together with 13 short papers were carefully reviewed and selected from 60 submissions They are organized in topical sections as follows climate change and digital sustainability ICT s and sustainable development IS in the education sector privacy trust and surveillance theories and methods *The Journal of the Administrative Sciences* ,1966 *The Gujarat Government Gazette* Gujarat (India),1964 *The HP Land Records Manual* Himachal Pradesh (India). Revenue Department,1992 *Development-Induced Displacement in India and China* Florence Padovani,2016-08-29 The world seems to have recently discovered India and China as major players in Asia and political and economic connections between the two countries are rapidly growing Beyond the fashionable phenomenon the two countries have much in common and many shared experiences Both are developing countries with dynamic economies focused on lifting their people out of poverty There are also differences as well as India is a democracy while China is an autocratic state and the speed of economic growth is much higher in India This collection provides a comparative analysis of development induced migration

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