

Experiment 1: Measurement of AC and DC voltage using Multimeter and CRO

Aim: (i) To measure AC and DC voltage using Multi-meter & Cathode Ray Oscilloscope (CRO)
(ii) To measure frequency of the AC signal using CRO

Apparatus required: Signal Generator, Variable DC supply, Multi-meter and CRO.

Procedure:

(i) To measure DC/AC voltage Using Digital Multi-meter (DMM)

1. Connect the black test lead to COM terminal and RED terminal to V/ Ω terminal.
2. Switch on the Variable DC supply set to 1V
3. Set the range selector switch to DC range and connect the test leads across the variable DC supply.
4. Vary the supply voltage and observe the variation in Multi-meter.
5. Set the range selector switch to AC range and connect the test leads across the Signal generator.
6. Switch on the signal generator and initially set the voltage knob of signal generator to minimum.
7. Vary the voltage and measure the voltage on the Multi-meter.
8. Multimeter reads the RMS voltage of the signal generator = $V_{p-p}/2\sqrt{2}$.
9. Tabulate both DC and AC Voltages.

(ii) To measure DC/AC voltage Using Cathode Ray Oscilloscope:

1. Switch on the CRO obtain a defined Trace of a horizontal line on the screen by adjusting INTENS and FOCUS knob
2. Adjust the Y position knob to make the trace to coincide with the centre line on the screen by keeping the AC/DC switch in GND Position.
3. Release the switch from GND position and observe a horizontal trace on CRO.
4. To measure DC voltage, Keep the Switch in DC position and Connect the Variable DC supply to either of the Channel using a probe..
5. Measure the shift in trace from the original position.
6. Multiply this by the scale indicated by the vol/div knob this gives the DC voltage.
7. To measure the AC voltage, connect the Signal generator to either of the channel using the probe and by keeping the Switch in AC position.
10. Observe the signal in the CRO, measure the number of divisions from peak to peak. Multiply this by the vol/div knob. RMS voltage of the signal generator = $V_{p-p}/2\sqrt{2}$.

(iii) To measure the frequency of signal.

1. To measure the frequency, Keep the Switch in AC position and connect the Signal generator to either of the channel using the probe.
2. Adjust Time/Div knob so as to see two three cycles on the CRO
3. Count the number of divisions in one cycle of the waveform. Multiply this by the time/div knob this gives the time period of the signal.
4. Reciprocal of the time period will give the frequency of signal.
5. Match the frequency on the signal generator with the measured value.

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Introduction to DC-AC Electronics Nigel P. Cook, Lancaster, Hugh Scriven, 1996 Understanding AC Circuits Dale Patrick, Stephen Fardo, Stephen W. Fardo, 2000 Understanding AC Circuits covers the second half of a basic electronic circuits theory course integrating theory and laboratory practice into a single text Several key features in each unit make this an excellent teaching tool objectives key terms self tests lab experiments and a unit exam This new edition has been thoroughly revised and updated by the authors to reflect the latest information on electronics Understanding AC Circuits is designed with the electronics beginner and student in mind The authors use a practical approach exposing the reader to the systems that are built with AC circuits making it easy for beginners to master even complex concepts in electronics while gradually building their knowledge base of both theory and applications Each chapter includes easy to read text accompanied by clear and concise graphics fully explaining each concept before moving onto the next The authors have provided section quizzes and chapter tests so the readers can monitor their progress and review any sections before moving onto the next chapter Each chapter also includes several electronics experiments allowing the reader to build small circuits and low cost projects for the added bonus of hands on experience in AC electronics Understanding AC Circuits fully covers dozens of topics including single phase and three phase AC electronics electrical generator basics how to use a multimeter and oscilloscope in AC electronics troubleshooting and testing circuits tools and equipment resistive circuits inductive circuits capacitive circuits vector diagrams series circuits transformers filter circuits resonant circuits decibels waveshaping control electronic symbols soldering techniques plus much more Integrates theory and lab experiments Contains course and learning objectives and self quizzes Heavily illustrated *Introductory DC/AC Electronics* Nigel P. Cook, 1996 Cook's down to earth approach makes the world of electronics come alive The book builds upon the highly praised practical learning approach with historical success stories guided examples device testing and performance based objectives Fundamentals of Electronics David L. Terrell, 2000 This introductory text covers basic electronics and the behavior of passive components circuit analysis and systematic troubleshooting The analytical methods used are strongly based on Ohm's and Kirchhoff's Laws Mathematics are used for analysis but only after a solid intuitive understanding of circuit or device operation has been established With a heavy emphasis on critical thinking over rote memorization and the coverage of state of the art technology this text truly prepares students to use and apply the knowledge they acquire **Lab Manual** Tony Cook, 1998-10-19 **Curriculum Materials for Trade and Industrial Education, 1963**, 1964 **Vocational Division Bulletin** United States. Division of Vocational and Technical Education, 1939 **Computer Simulated Experiments for Electric Circuits Using Electronics Workbench** Richard Henry Berube, 2000 This laboratory manual uses Electronics Workbench to simulate actual lab experiments on a computer Berube Community College of Rhode Island designed the experiments to help reinforce the classroom theory in a dc and ac electric circuits course including discussions of nodal voltage circuit analysis Computer

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Fundamentals of Digital Electronics Robert K. Dueck, 1994 *Vocational Education Bulletin* United States. Division of Vocational Education, 1961 **Tech Directions** , 1995 **Books in Print** , 1994 *Subject Guide to Books in Print* , 1983

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