

21PPE104

POWER QUALITY LABORATORY

L T P C

0 0 4 2

OBJECTIVES:

Students will be able to:

- Understand the different power quality issues to be addressed
- Understand the recommended practices by various standard bodies like IEEE, IEC, etc. on voltage & frequency, harmonics

LIST OF EXPERIMENTS

- 1.To study the effect of non linear loads on power quality.
- 2.To demonstrate the voltage and current distortions experimentally.
- 3.To reduce the current harmonics with filters.
- 4.To study the voltage sag due to starting of large induction motor.
- 5.To calculate the distortion power factor.
- 6.To study the capacitor switching transients.
- 7.To study the effect of ground loop.
- 8.To study effect of voltage sag on electrical equipment.
- 9.To study the effect of voltage flicker.
- 10.Study the effect of harmonics on energy meter reading.

TOTAL: 30 Periods

COURSE OUTCOMES:

After successful completion of this course the students will be able to:

- Acquire knowledge about the harmonics, harmonic introducing devices and effect of harmonics on system equipment and loads
- Develop analytical modeling skills needed for modeling and analysis of harmonics in networks and components
- To introduce the student to active power factor correction based on static VAR compensators and its control techniques
- To introduce the student to series and shunt active power filtering techniques for harmonics

Power Quality Lab Manual

**Naida Ademović, Edin Mujčić, Medžida
Mulić, Jasmin Kevrić, Zlatan Akšamija**

Power Quality Lab Manual:

Practical manual on tuberculosis laboratory strengthening World Health Organization, 2022-10-31 **Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications** James W. [et. al]. Perry, 2002 **Mammalogy Techniques Lab Manual** James M. Ryan, 2018-10-30 Get outside A hands on lab manual for instructors incorporating fieldwork into their courses on mammalogy Mammals inhabit nearly every continent and every sea They have adapted to life underground in the frozen Arctic the hottest deserts and every habitat in between In Mammalogy Techniques Lab Manual the only field manual devoted to training the next generation of mammalogists biologist and educator James M Ryan details the modern research techniques today s professionals use to study mammals wherever they are found Ideal for any mammalogy or wildlife biology course this clear and practical guide aids students by getting them outside to study mammals in their natural environments Twenty comprehensive chapters cover skull and tooth identification radio and satellite GPS tracking phylogeny construction mark and recapture techniques camera trapping museum specimen preparation optimal foraging and DNA extraction among other topics Each chapter includes several exercises with step by step instructions for students to collect and analyze their own data along with background information downloadable sample data sets to use when it is not practical to be out in the field and detailed descriptions of useful open source software tools This pragmatic resource provides students with real world experience practicing the complex techniques used by modern wildlife biologists With more than 60 applied exercises to choose from in this unique manual students will quickly acquire the scientific skills essential for a career working with mammals **Proceedings of International Conference on Power Electronics and Renewable Energy Systems** C. Subramani, K. Vijayakumar, Brayima Dakyo, Subhransu Sekhar Dash, 2021-11-21 This book features selected papers from the International Conference on Power Electronics and Renewable Energy Systems ICPERES 2021 organized by SRM Institute of Science and Technology Chennai India during April 2021 It covers recent advances in the field of soft computing applications in power systems power system modeling and control power system stability power quality issues and solutions smart grid green and renewable energy technology optimization techniques in electrical systems power electronics controllers for power systems power converters and modeling high voltage engineering networking grid and cloud computing computer architecture and embedded systems fuzzy logic control fuzzy decision support systems and control systems The book presents innovative work by leading academics researchers and experts from industry *Quality and Risk Management in the IVF Laboratory* Sharon T. Mortimer, David Mortimer, 2015-03-02 Updated edition of this bestselling book now extended to include quality and risk management in the ART clinic **Mathematics as a Laboratory Tool** John Milton, Toru Ohira, 2014-09-18 This introductory textbook is based on the premise that the foundation of good science is good data The educational challenge addressed by this introductory textbook is how to present a sampling of the wide range of

mathematical tools available for laboratory research to well motivated students with a mathematical background limited to an introductory course in calculus

Quality and Risk Management in the IVF Laboratory David Mortimer, Sharon T. Mortimer, 2007-12-24 This essential survival guide for successfully managing the modern day IVF clinic condenses a wealth of expertise and experience from the authors in troubleshooting and implementing quality management in the IVF laboratory With high profile media coverage of mistakes at IVF clinics and escalating regulatory scrutiny there is increasing pressure for professional accreditation Modern accreditation schemes which are largely based on the principles of ISO 9001 and related standards require Quality Systems Yet quality management beyond basic assay quality control is often poorly understood by biomedical scientists outside clinical chemistry laboratories Quality and risk management are thus becoming hot topics for those working in IVF clinics and this book brings together for the first time in one place the basics of these essential aspects of laboratory management The focus on taking a holistic approach to prophylactic management prevention rather than cure will be welcomed by all scientists working in IVF

Advanced Technologies, Systems, and Applications VII Naida Ademović, Edin Mujčić, Medžida Mulić, Jasmin Kevrić, Zlatan Akšamija, 2022-10-15 This book presents a collection of articles on the advanced and interdisciplinary application of innovative technologies Scientific investigations and results of the conference 13th Days of Bosnian Herzegovinian American Academy of Art and Sciences held in Sarajevo Bosnia and Herzegovina June 23 26 2022 are presented in this book The up to date advances in various fields of engineering have been presented through numerous papers spanning the disciplines of civil engineering mechanical engineering advanced electrical power systems computer modeling and simulations for engineering applications computer science and artificial intelligence geodesy and geoinformation data science and geographic information systems and information and communication technologies The editors would like to extend special gratitude to all the chairs of the planned symposia of the 13th Days of BHAAAS for their dedicated work in the production of this book

Publications- a Quarterly Guide, 1979

Annual Report - National Voluntary Laboratory Accreditation Program National Voluntary Laboratory Accreditation Program, 1979

Annual Report. National Voluntary Laboratory Accreditation Program United States. Department of Commerce, 1979

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979

Swine Waste Electric Power & Heat Production Capstone 30 kW Microturbine System, **Resources in Education**, 1983

Canadiana, 1989

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977-05

U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974

Design Analysis of Wide-body Aircraft United States. Congress. House. Committee on Science and Technology. Subcommittee on Investigations and Oversight, 1980

Federal Register, 1979

Report summaries United States. Environmental Protection Agency, 1983

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induction i e a changing magnetic field can induce an emf in a conductor circuit

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one magnet is called the shunt magnet ml which is mounted with a pressure coil the pressure coil is a long coil made of fine
copper wire which is connected across the supply line

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since the principle of induction can only possible with alternating current thus induction type wattmeters are used for the

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web induction type wattmeter this type of wattmeter can be used on both ac and dc system in carefully designed instruments

it provides high degree of accuracy this wattmeter has less power consumption criteria weight of moving system in this system is reasonably low this is in uniform scale it has relatively weaker working torque the type of induction type relays shaded pole watt hour meter induction cup relays - Aug 04 2022

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