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DETERMINATION OF TRANSFER FUNCTION OF AC SERVO MOTOR

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DETERMINATION OF TRANSFER FUNCTION OF AC SERVO MOTOR

AIM:

To derive the transfer function of the given AC Servomotor.

APPARATUS / INSTRUMENTS REQUIRED:

S. No	Description	Range	Type	Quantity
1.	AC servo motor trainer kit	-		1
2.	AC servo motor			1
3.	Ammeter	(0-1) A (0-100) mA	MC MI	1 1
4.	Voltmeter	(0-300) V (0-75) V	MC MI	1 1
5.	Patch cords	-		As required

THEORY:

An AC servo motor is basically a two phase induction motor with some special design features. The stator consists of two pole pairs (A-B and C-D) mounted on the inner periphery of the stator, such that their axes are at an angle of 90° in space. Each pole pair carries a winding, one winding is called reference winding and other is called a control winding. The exciting current in the winding should have a phase displacement of 90° . The supply used to drive the motor is single phase and so a phase advancing capacitor is connected to one of the phase to produce a phase difference of 90° . The rotor construction is usually squirrel cage or drag-cup type. The rotor bars are placed on the slots and short-circuited at both ends by end rings. The diameter of the rotor is kept small in order to reduce inertia and to obtain good accelerating characteristics. The drag-cup construction is employed for very low inertia applications. In this type of construction the rotor will be in the form of hollow cylinder made of aluminum. The aluminum cylinder itself acts as short-circuited rotor conductors. Electrically both the types of rotor are identical.

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**Dr. A. Anandhan, Dr. Bigyan Ranjan
Jali, Dr. P. Durairaj**

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Advanced Inorganic Chemistry: Structure, Reactivity and Applications Dr. A. Anandhan,Dr. Bigyan Ranjan Jali,Dr. P. Durairaj,2025-02-11 Advanced Inorganic Chemistry Structure Reactivity and Applications offers an in depth exploration of the principles and practices that define modern inorganic chemistry Structured to reflect both classical foundations and contemporary developments the book provides a clear pathway through complex topics including molecular symmetry bonding theories acid base behavior transition metal chemistry organometallics solid state structures and bioinorganic systems Designed for upper level undergraduate and graduate students as well as researchers seeking a comprehensive resource the book integrates conceptual explanations with experimental techniques and real world applications Each chapter includes detailed illustrations examples and problem solving strategies to facilitate understanding and application of concepts in diverse chemical contexts What sets this book apart is its strong emphasis on the reactivity of inorganic compounds and their functional roles in modern science and technology from catalysis and materials design to medicine and environmental science Special sections highlight recent breakthroughs advanced spectroscopic techniques and interdisciplinary applications that extend the reach of inorganic chemistry Whether used as a textbook or a reference this volume is designed to stimulate deeper insight into the structural elegance and chemical versatility of inorganic compounds inspiring a new generation of chemists to engage with the field at both theoretical and practical levels

Forensic Anthropology Laboratory Manual Steven N. Byers,Chelsey A. Juarez,2016-10-04 This manual provides students in academic laboratory courses with hands on experience of the major processes of forensic anthropology Designed to accompany the textbook Introduction to Forensic Anthropology the manual introduces core procedures and protocol with exercise worksheets to reinforce the methodologies of forensic anthropology and enhance student comprehension For the fourth edition the manual has been updated in line with the textbook incorporating new methods figures and worksheets Each chapter contains explanations of the terminology osteological features and measurements needed to understand each of the topics Chapters may be covered in one session or multiple sessions and include lists of both basic and optional lab materials enabling instructors to tailor each lab to the resources they have available

Chemistry in Your Life Lab Manual Ernest McGoran,2006-03-31 Designed to help students understand the material better and avoid common mistakes Includes solutions and explanations to odd numbered exercises

Engineering Materials and Metallurgy Mr. R. Prem Kumar,Dr. G. Suganya B.E , M.E., Ph.D,Mr. Ganeshkumar. KV,Mr. P. Karthick,2025-09-05 Engineering Materials and Metallurgy is a

comprehensive textbook that explores the fundamental principles processes and applications of materials science and metallurgy in engineering Carefully structured for students educators and professionals this book bridges the gap between theoretical concepts and practical applications making it a valuable resource for academic study as well as industrial practice The text begins with the constitution of alloys and phase diagrams building a foundation for understanding material structures and transformations It then moves into heat treatment processes ferrous and non ferrous alloys and non metallic materials such as polymers ceramics and composites The final section delves deeply into mechanical properties material testing and failure mechanisms like fatigue creep and fracture essential for design and analysis in real world engineering systems Each chapter is supported with illustrations classification charts process diagrams and case based examples ensuring clarity and retention of key concepts The book emphasizes both the scientific principles and their engineering implications highlighting applications in industries such as aerospace automotive construction and manufacturing Designed primarily for undergraduate students in Mechanical Metallurgical Production and Materials Engineering this book also serves as a ready reference for researchers practicing engineers and industry professionals By combining depth of coverage with accessibility it equips readers with the knowledge to select process and apply engineering materials effectively in modern technological contexts

Handbook of Research on Emerging Trends and Applications of Machine Learning Solanki, Arun,Kumar, Sandeep,Nayyar, Anand,2019-12-13 As today s world continues to advance Artificial Intelligence AI is a field that has become a staple of technological development and led to the advancement of numerous professional industries An application within AI that has gained attention is machine learning Machine learning uses statistical techniques and algorithms to give computer systems the ability to understand and its popularity has circulated through many trades Understanding this technology and its countless implementations is pivotal for scientists and researchers across the world The Handbook of Research on Emerging Trends and Applications of Machine Learning provides a high level understanding of various machine learning algorithms along with modern tools and techniques using Artificial Intelligence In addition this book explores the critical role that machine learning plays in a variety of professional fields including healthcare business and computer science While highlighting topics including image processing predictive analytics and smart grid management this book is ideally designed for developers data scientists business analysts information architects finance agents healthcare professionals researchers retail traders professors and graduate students seeking current research on the benefits implementations and trends of machine learning

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