

- 2.12. A preliminary design of a tandem rotor helicopter with a gross weight of 19,500 lb (8,845.2 kg) suggests a rotor diameter of 45 ft (13.72 m), a blade chord of 20 inches (0.508 m), three blades, and a rotor tip speed of 700 ft/s (213.43 m/s). Estimate the total shaft power required to hover if the induced power factor for the front rotor is 1.20 and that for the rear rotor is 1.15. The rotor airfoil to be used has a zero lift drag coefficient of 0.01. Estimate the installed power if transmission losses amount to 5% and the aircraft must demonstrate a vertical rate of climb of 1,000 ft/min (304.9 m/min) at sea-level.
- 2.13. A tilt-rotor has a gross weight (mass) of 25,500 kg. The rotor diameter is 12 m. On the basis of the simple momentum theory, estimate the power required for the aircraft to hover at sea-level on a standard day. Assume that the figure of merit of the rotors is 0.80 and transmission losses amount to 5%. If each of the two turbo-shaft engines delivers 4,500 kW, estimate the maximum vertical rate of climb at sea-level.

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Gordon J. Leishman



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The AGT Cytogenetics Laboratory Manual Marilyn S. Arsham, Margaret J. Barch, Helen J. Lawce, 2017-04-24 Cytogenetics is the study of chromosome morphology structure pathology function and behavior The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and or a targeted region within a specific chromosome in metaphase or interphase Tools include routine analysis of G banded chromosomes specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization FISH and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell use of a microscope human tissue processing for cytogenetic analysis prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy this edition introduces new and expanded chapters by experts in the field Some of these new topics include a unique collection of chromosome heteromorphisms clinical examples of genomic imprinting an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist usage of ISCN s cytogenetic language to describe chromosome changes tips for laboratory management examples of laboratory information systems a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures This makes it a useful resource for researchers clinicians and lab professionals as well as students in a university or medical school setting Nordic Manual for the Surveillance and Diagnosis of Diseases in Farmed Salmonids Paul J. Midtlyng, 19?? PRACTICAL MANUAL OF ZOOLOGY Dr. Tasneem Jahan, 2020-11-04 This Practical manual is written in accordance with the Syllabus of Semester VI of B Sc III year followed by Osmania University Hyderabad Telangana It consists of all the essential and relevant information about the practical topics in Immunology Animal Biotechnology and Aquatic Biology in a simple and lucid manner **The Veterinary Laboratory and Field Manual 3rd Edition** Susan C. Cork, Roy Halliwell, 2019-06-03 Isolated regions of the world are often at the forefront of emerging diseases and to be effective in disease prevention and control they require basic resources for field sample collection and testing in conditions vastly different from those available in well equipped reference laboratories Technical support for field extension staff and

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