

AERO ENGINE MAINTENANCE AND REPAIR

UNIT I PISTON ENGINES

Carburation and fuel injection systems for small and large engines - Ignition system components - spark plug detail - Engine operating conditions at various altitudes - Engine power measurements - Classification of engine lubricants and fuels - Induction, exhaust and cooling system - Maintenance and inspection check to be carried out Inspection and maintenance and trouble shooting - Inspection of all engine components - Daily and routine checks - Overhaul procedures - Compression testing of cylinders - Special inspection schedules - Engine fuel, control and exhaust systems - Engine mount and super charger - Checks and inspection procedures.

UNIT II PROPELLERS

Propeller theory - operation, construction assembly and installation - Pitch change mechanism - Propeller axial system - Damage and repair criteria - General inspection procedures - Checks on constant speed propellers - Pitch setting, Propeller Balancing, Blade cuffs, Governor/Propeller operating conditions - Damage and repair criteria.

UNIT III JET ENGINES

Types of jet engines - Fundamental principles - Bearings and seals - Inlets - compressors- turbines- exhaust section - classification and types of lubrication and fuels- Materials used - Details of control, starting around running and operating procedures - Inspection and Maintenance- permissible limits of damage and repair criteria of engine components- internal inspection of engines- compressor washing- field balancing of compressor fans- Component maintenance procedures - Systems maintenance procedures - use of instruments for online maintenance - Special inspection procedures- Foreign Object Damage - Blade damage .

UNIT IV TESTING AND INSPECTION

Symptoms of failure - Fault diagnostics - Case studies of different engine systems - Rectification during testing equipments for overhaul- Tools and equipments requirements for various checks and alignment during overhauling - Tools for inspection - Tools for safety and for visual inspection - Methods and instruments for non destructive testing techniques - Equipment for replacement of parts and their repair. Engine testing: Engine testing procedures and schedule preparation - Online maintenance.

UNIT V OVERHAULING 9

Engine Overhaul - Overhaul procedures - Inspections and cleaning of components - Repairs schedules for overhaul - Balancing of Gas turbine components. Trouble Shooting: Procedures for trouble shooting - Condition monitoring of the engine on ground and at altitude - engine health monitoring and corrective methods.

TEXT BOOK:

1. Kroes & Wild, "Aircraft Power plants", 7th Edition - McGraw Hill, New York, 1994.

Aero Engine Maintenance And Repair Notes

George William Williamson

Aero Engine Maintenance And Repair Notes:

Aero-engine Practice Edward Molloy,1941 **The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army** American Council on Education,1980 **The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,1984 Aircraft Accident and Maintenance Review,1956 Engineering Journal,1918 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924 **The Flight Mechanic's Handbook** George William Williamson,1944 Aviation Maintenance Ratings Supervisor,1991 **Federal Register**,1963 **The Times Index**,1998 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment Josip Stjepandić,Georg Rock,Cees Bil,2012-08-10 The CE Conference series is organized annually by the International Society for Productivity Enhancement ISPE and constitutes an important forum for international scientific exchange on concurrent and collaborative enterprise engineering These international conferences attract a significant number of researchers industrialists and students as well as government representatives who are interested in the recent advances in concurrent engineering research and applications Concurrent Engineering Approaches for Sustainable Product Development in a Multi Disciplinary Environment Proceedings of the 19th ISPE International Conference on Concurrent Engineering contains papers accepted peer reviewed and presented at the annual conference held at the University of Applied Sciences in Trier Germany from 3rd 7th of September 2012 This covers a wide range of cutting edge topics including Systems Engineering and Innovation Design for Sustainability Knowledge Engineering and Management Managing product variety Product Life Cycle Management and Service Engineering Value Engineering

United States Navy Aviation Mechanics' Training System for Engine Maintenance Force United States Navy Gas Engine School, New York,1920 *American Book Publishing Record Cumulative, 1876-1949* R.R. Bowker Company. Department of Bibliography,1980 **Flight & the Aircraft Engineer**,1920 **Aeronautics**,1917 Aeroplane Carburetors: Dealing with the maintenance and repair of the more popular types of Hobson aero carburetors, with a chapter dealing with Hobson induction pressure (boost) control Edward Molloy,1940 The Canada Gazette Canada,1920

Confidential Documents United States. Document Service Center, Dayton, Ohio,1940 **The Autocar**,1915
Adult Catalog: Subjects Los Angeles County Public Library,1970 **The 2002 Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,American Council on Education Staff,2005 Long considered to be the standard reference work in this area this three volume set describes more than 8 000 courses offered between January 1990 and the present by various service branches and the Department of Defense Long considered to be the standard reference work in this area this three volume set describes more than 8 000 courses offered

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