

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 axially 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

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

BM King



Aero Engine Maintenance And Repair Notes:

Whispering the Secrets of Language: An Psychological Journey through **Aero Engine Maintenance And Repair Notes**

In a digitally-driven world wherever monitors reign supreme and instant interaction drowns out the subtleties of language, the profound secrets and psychological nuances concealed within words often move unheard. However, set within the pages of **Aero Engine Maintenance And Repair Notes** a fascinating literary treasure pulsating with organic emotions, lies an extraordinary journey waiting to be undertaken. Composed by an experienced wordsmith, this marvelous opus invites viewers on an introspective trip, softly unraveling the veiled truths and profound affect resonating within ab muscles fabric of every word. Within the mental depths of this poignant review, we will embark upon a sincere exploration of the book is key themes, dissect its interesting writing type, and succumb to the effective resonance it evokes heavy within the recesses of readers hearts.

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