| Foreword | | V |
|-------------|---|-----|
| How to use | this book | VI |
| | questions & time limits | |
| SYSTEM DES | IGN, LOADS, STRESSES, MAINTENANCE | |
| 021-01-01 | System Design | 1 |
| 021-01-02 | Loads and Stresses | 1 |
| | Fatigue | |
| AIRFRAME | | |
| | Construction and Attachment Methods | 3 |
| 021-02-01 | | |
| | Materials Aeroplane: Wings, Tail Surfaces and Control Surfaces | |
| | | |
| 021-02-04 | Fuselage, Landing Gear, Doors, Floor, Wind-Screen and Windows | ٥ |
| 021-02-05 | Helicopter: Flight Controls Structural Aspects | 9 |
| 021-02-00 | Structural Limitations | |
| HYDRAULICS | | 11 |
| 021-03-01 | Hydro-Mechanics: Basic Principles | 19 |
| 021-03-02 | Hydraulic Systems | 12 |
| LANDING GE | AR, WHEELS, TYRES, BRAKES | |
| 021-04-01 | Landing Gear | 23 |
| 021-04-02 | Nose Wheel Steering: Design, Operation | 27 |
| 021-04-03 | Brakes | 28 |
| 021-04-04 | Wheels, Rims and Tyres | 32 |
| 021-04-05 | Helicopter Equipment | 34 |
| FLIGHT CONT | FROLS | |
| 021-05-01 | Aeroplane: Primary Flight Controls | 35 |
| 021-05-02 | Aeroplane: Secondary Flight Controls | 39 |
| 021-05-03 | Helicopter: Flight Controls | 41 |
| 021-05-04 | Aeroplane: Fly-by-Wire (FBW) Control Systems | 44 |
| PNEUMATICS | - PRESSURISATION AND AIR CONDITIONING SYSTEMS | |
| 021-06-01 | Pneumatic / Bleed Air Supply | 45 |
| 021-06-02 | Helicopter Specific: Air Conditioning Systems | 47 |
| 021-06-03 | Pressurisation and Air Conditioning Systems | 48 |
| | | |
| | ND DE-ICING SYSTEMS | 61 |
| | Types, Design, Operation, Indications and Warnings, Operational Limitations | |
| 021-07-02 | Ice Warning Systems: Types, Operation, and Indications | 67 |
| 021-07-03 | Helicopter Blade Heating Systems | |
| FUEL SYSTE | | |
| 021-08-01 | Piston Engine | 69 |
| 021-08-02 | Turbine Engine | |
| ELECTRICS | | |
| 021-09-01 | | 83 |
| 021-09-02 | Batteries | 92 |
| 021-09-03 | Generation | 96 |
| | Distribution | 103 |
| 021-09-05 | Electrical Motors | 110 |
| PISTON ENG | INES | |
| 021-10-01 | General | 113 |
| | | |

| | Fuel | |
|--|---|-----------|
| 021-10-03 | Engine Fuel Pumps | 12 |
| 021-10-04 | Carburettor / Injection System | 12 |
| 021-10-05 | Cooling Systems | 12 |
| 021-10-06 | Lubrication systems | 12 |
| 021-10-07 | Ignition Circuits | 12 |
| 021-10-08 | Mixture | 13 |
| 021-10-09 | Aeroplane: Propellers | 13 |
| 021-10-10 | Performance and Engine Handling | 14 |
| TURBINE ENG | RINES | |
| | Basic Principles | 15 |
| 021-11-01 | Main Engine Components | |
| 021-11-02 | Additional Components and Systems | |
| 021-11-03 | Engine Operation and Monitoring | 17 |
| 021-11-04 | Performance Aspects | 17: |
| 021-11-05 | Auxiliary Power Unit (APU) | 17: |
| | | |
| | AND DETECTION SYSTEMS | 47* |
| 021-12-01 | Smoke Detection | ۱/۱ |
| 021-12-02 | Fire Protection Systems | 100 |
| 021-12-03 | Rain Protection System | |
| OXYGEN SYS | TEMS | 18٤ |
| HEI ICOPTER | : MISCELLANEOUS SYSTEMS | |
| | ons in This Chapter | |
| NEI ICODTED | : ROTOR HEADS | |
| 024 15 04 | Main Rotor | 19: |
| 021-10-01 | Tail Rotor | 198 |
| 021-13-02 | Tall Notol | |
| HELICOPTER | : TRANSMISSION | 00. |
| | Main Gear Box | |
| | Rotor Brake | |
| 021 16 02 | | |
| 021-10-03 | No Questions in This Chapter | |
| 021-16-04 | Drive Shaft and Associated Installation | 20° |
| 021-16-04 021-16-05 | Drive Shaft and Associated Installation | 20 20 |
| 021-16-04 021-16-05 021-16-06 | Drive Shaft and Associated Installation | 20 202 |
| 021-16-04 021-16-05 021-16-06 | Drive Shaft and Associated Installation | 20 202 |
| 021-16-04 021-16-05 021-16-06 021-16-07 | Drive Shaft and Associated Installation | |
| 021-16-04 021-16-05 021-16-06 021-16-07 HELICOPTER 021-17-01 | Drive Shaft and Associated Installation | |
| 021-16-04 021-16-05 021-16-06 021-16-07 HELICOPTER 021-17-01 | Drive Shaft and Associated Installation | |
| 021-16-04 021-16-05 021-16-06 021-16-07 HELICOPTER 021-17-01 021-17-02 | Drive Shaft and Associated Installation Intermediate and Tail Gear Box Clutches Freewheels E: BLADES Main Rotor Blade Tail Rotor Blade | |
| 021-16-04 021-16-05 021-16-06 021-16-07 HELICOPTER 021-17-01 021-17-02 Picture Supple | Drive Shaft and Associated Installation | |