

Index

A

Accident Rates, 1-5
Aerodynamic Surfaces, Helicopter, C-1
Aeronautical Charts, 1-26
Aeronautical Information Publication (AIP), 1-13
Airborne Navigation Databases, A-1
Air Commerce Act of 1926, 1-2
Air Route Surveillance Radar, 1-16
Airport Surveillance Radar, 1-15, 5-61
Air Route Traffic Control Center (ARTCC), 1-9, 1-10, 3-1, 5-12
Air Traffic Control System Command Center (ATC SCC), 1-6, 1-7
Air Traffic Control Tower (ATCT), 1-9
Air Traffic Management (ATM), 1-11
Air Traffic Service (ATS), 3-32
Airport Diagrams, 2-1
Airport Movement Area Safety System (AMASS), 1-6
Airport Signage/Lighting/Markings, 2-3
Airport Sketches, 2-1
Airport Surface Detection Equipment-3 (ASDE-3), 1-6
Airport Surface Detection Equipment-X (ASDE-X), 1-6
Airport/Facility Directory (A/FD), 1-28, 2-2
Airway and Route System, 3-4
Approach and Landing Accident Reduction (ALAR), 1-5
Approach Briefing, 5-33
Approach Category, 5-7
Approach Chart Format Changes, B-1
Approach Clearance, 5-39
Approach Gate, 4-1, 5-39
Approach Planning, 5-1
Approach Segments, 5-35
Area Navigation (RNAV), 1-4, 1-11, 1-13, 3-31, 5-10
Area Navigation Departures, 2-25, 2-26
Arrival Procedures, 4-18
Attitude Retention System (ATT), C-1
Automated Surface Observing Systems (ASOS), 2-9, 5-4

Automated Weather Observing Systems (AWOS), 2-9, 5-4
Automatic Dependent Surveillance-Broadcast (ADS-B), 1-4, 3-37, 6-2
Automatic Terminal Information Service (ATIS), 2-10, 5-4
Autopilot Modes, 5-26
Autopilot System, Helicopter, C-2

B

Back Course Approach, 5-62
Briefing, Instrument Approach, 5-24, 5-33

C

Capital Investment Plan (CIP), 1-2, 1-3
CAT II and III Approaches, 5-48
Ceiling and Visibility Requirements, 2-8
Center for Advanced Aviation Systems Development (CAASD), 1-9, 1-11
Changeover Point (COP), 3-11
Chartered Visual Flight Procedure, 5-41
Civil Aeronautics Administration (CAA), 1-2
Clearance, Approach, 5-39
Cockpit Display of Traffic Information (CDTI), 6-7
Communication, 5-12
Communication Failure, 3-18
Communication, Navigation, Surveillance (CNS), 1-11, 1-18
Communication, Navigation, Surveillance/ Air Traffic Management (CNS/ATM), 1-11
Contact Approach, 5-41
Controlled Flight into Terrain (CFIT), 1-5, 4-12
Controlled Time of Departure (CTD), 1-11
Controller Pilot Data Link Communications (CPDLC), 1-4
Copter Only Approaches, C-7
Course Reversal, 5-37

D

Decision Altitude, 5-5, 5-18
Decision Height, 5-5, 5-18
Department of Transportation (DOT), 1-2
Departure Procedures, 2-12, 2-24
Descend Via Clearance, 4-19
Descent Planning, 4-2
Developing Technology, 6-13
Digital ATIS (D-ATIS), 2-10
Display System Replacement (DSR), 1-4
Disseminating Aeronautical Information, 1-25
Diverse Vector Area (DVA), 2-31
Diversion Procedures, 3-26
DME Arcs, 5-36
Dynamic Magnetic Variation, A-6

E

Electronic Flight Bag, 6-2
Electronic Flight Information System, 1-20
Ellipsoid of Revolution, A-4
Enhanced Ground Proximity Warning System (EGPWS), 1-6
En Route Altitudes, 3-12, 3-33
En Route Navigation, 3-1, 3-27
En Route Obstacle Clearance Areas, 3-6
En Route Flight Advisory Service (Flight Watch), 1-10
Equipment and Avionics, 1-17
Expect Departure Clearance Time (EDCT), 1-11

F

Federal Aviation Act of 1958, 1-2
Federal Aviation Administration (FAA), 1-2, 1-3
Federal Aviation Agency, 1-2
Feeder Routes, 5-35
Final Approach Segment, 5-38
Fleet Improvement, 6-1
Flight Data Processing, 1-11
Flight Director, Helicopter, C-2
Flight Information Region (FIR), 3-17
Flight Level (FL), 3-16
Flight Management Systems, 5-26
Flight Plans, 1-11
Flight Service Station (FSS), 1-9, 1-10
Flight Watch, see En Route Flight Advisory Service
Floating Waypoints, 3-35
Flight Management System, 1-20
Fly-by Waypoint, 5-16
Fly-over Waypoint, 5-16
Four Corner Post Configuration, 6-6
Free Flight, 1-3

G

General Aviation Manufacturer's Association (GAMA), 1-6
Geodetic Datum, A-4
Global Positioning System (GPS), 1-14
Gross Navigation Errors (GNEs), 3-38
Ground Communication Outlet (GCO), 2-25
Ground Delay Program (GDP), 1-11

H

Head-up Guidance System (HGS), 2-8
Helicopter IFR Certification, C-1
Helicopter Instrument Procedures, C-1
Helicopter Special Approaches, C-11
Highway in the Sky (HITS), 6-14
Holding Procedures, 3-23
Host/Oceanic Computer System Replacement (HOCSR), 1-4

I

IFR Alternate Minimums, 2-11, C-6
ILS Approach, 5-46
ILS Approach Categories, 5-48
Increasing Capacity and Safety, 6-4
Initial Approach Segment, 5-37
Instrument Approach Procedure Briefing, 5-24
Instrument Approaches, Helicopter, C-6
Intermediate Approach Segment, 5-37
International Civil Aviation Organization (ICAO), 1-12, 3-32

L

Land and Hold Short Operations (LAHSO), 1-24
LPV, 5-21
Local Area Augmentation System (LAAS), 1-4
Localizer Approach, 5-62
Localizer Back Course Approach, 5-65
Localizer-Type Directional Aid (LDA), 5-66

M

Magnetic Variation, A-5
Managing Safety and Capacity, 1-11
Maximum Authorized Altitude (MAA), 3-16
Microwave Landing System (MLS), 5-52
Mid-RVR, 2-9
Military Airspace Management System (MAMS), 6-12
Minimum Aviation System Performance Specification (MASPS), 1-13
Minimum Crossing Altitude (MCA), 3-13

Minimum Descent altitude (MDA), 5-5, 5-18
Minimum Enroute Altitude (MEA), 3-12
Minimum IFR Altitude (MIA), 3-33
Minimum Navigation Performance Specifications (MNPS), 3-38
Minimum Obstruction Clearance Altitude (MOCA), 3-13
Minimum Reception Altitudes (MRAs), 3-13
Minimum Safe Altitude, 5-16
Minimum Safe Altitude Warning (MSAW), 1-6, 5-16
Minimum Vectoring Altitude (MVA), 2-31, 3-13
Missed Approach, 5-29
Missed Approach Holding Waypoint, 5-16
Missed Approach Segment, 5-39
Missed Approach Waypoint, 5-16

N

National Airspace System (NAS), 1-1 – 1-3
National Airspace System Plans, 1-3
National Airspace System Users, 1-8
National Route Program (NRP), 3-36
National Transportation Safety Board (NTSB), 1-2, 1-5
Navigational Gap, 3-10
Navigation Systems, 1-21
NDB Approach, 5-57
Noise Abatement Procedures, 2-32
Notices to Airmen (NOTAM), 1-29

O

Obstacle Departure Procedure (ODP), 2-16, 2-25
Off-airway routes, 3-27
Off-Route Obstacle Clearance Altitude (OROCA), 3-29
Operational Considerations, 5-7
Operational Evolution Plan (OEP), 1-3, 1-11
Operations Specifications (OpsSpecs), 2-8

P

Pilot Briefing Information Format, 5-7, B-1
Performance Considerations, 5-5
Point-in-Space Approach, C-5
Precision Approach Radar (PAR), 5-60
Precision Radar Monitoring, 1-16
Precision Runway Monitor (PRM), 1-16, 5-47
Preferential Departure Route (PDR), 2-17
Preferred IFR Routes, 3-3
Principal Operations Inspector (POI), 3-27

R

Radar Approach, 5-60
Radar Departure, 2-30, 2-31
Radar Systems, 1-15
Realized Demand, 1-8
Reduced Vertical Separation Minimums (RVSM), 1-15, 3-41
Reference Landing Speed (V_{REF}), 5-7
Regional Center, 1-10
Release Time, 1-11
Remote Communications Outlet (RCO), 2-25
Required Navigation Performance (RNP), 1-11, 1-13, 1-14, 3-38
RNAV Approach, 5-42
RNAV Plans, 1-4
Roll-out RVR, 2-9
Runway Hotspots, 2-3
Runway Incursion, 1-5, 1-6, 2-3
Runway Incursion Statistics, 1-6
Runway Safety Program (RSP), 1-6, 2-5, 2-6
Runway Visibility Value (RVV), 2-9
Runway Visual Range (RVR), 2-8

S

Safer Skies, 1-6
Simplified Directional Facility (SDF), 5-67
Special Approaches, Helicopter, C-11
Special Use Airspace Management System (SAMS), 6-13
Stabilized Approach, 5-28
Stability Augmentation System (SAS), C-1
Standard Instrument Approaches, Helicopter, C-6
Standard Instrument Departure (SID), 2-17
Standard Service Volume, 3-4
Standard Taxi Routes, 2-4
Standard Terminal Arrival Route (STAR), 4-14, 4-21
STAR transition, 4-16
Station Declination, A-5
Surface Movement Guidance Control System (SMGCS), 1-24, 2-2
Surface Movement Safety, 2-1
Surveillance Systems, 1-22
Synthetic Vision, 6-14
System Capacity, 1-6
System Safety, 1-5

T

Takeoffs and Landings, 1-6
Takeoff Minimums, 2-6, C-5
Terminal Area Operations Aviation Rulemaking Committee (TAOARC), 1-3
Terminal Arrival Area (TAA), 5-22, 5-43

Terminal Doppler Weather Radar (TDWR), 1-3
Terminal Radar Approach Control (TRACON), 1-9, 1-10
Terminal Routes, 5-36
Terrain Awareness and Warning System (TAWS), 1-6,
1-20
Top of Climb (TOC), 3-26
Top of Descent (TOD), 3-22
Total Navigation System Error (TSE), 1-13
Touchdown RVR, 2-9
Tower En Route Control (TEC), 3-4
Traffic Alert and Collision Avoidance System (TCAS),
1-19
Traffic Information Service-broadcast (TIS-B), 1-20, 6-7
Traffic Management (TM), 1-7
Traffic Management Unit (TMU), 1-7
Transition Altitude (QNH), 3-17
Transition from En Route, 4-1
Transition Height (QFE), 3-17
Transition Layer, 3-17
Transition Level (QNE), 3-17
Transition Routes, 3-37
Transition to Visual, 5-29
Trim Systems, Helicopter, C-1
Types of Approaches, 5-40

U

User Request Evaluation Tool (URET), 3-37
User-Defined Waypoints, 3-34

V

Vectors, Final Approach, 5-39
Vertical Navigation, 5-18
Vertical Navigation Planning, 4-18
VFR Departure, 2-32
VFR Minimums, Helicopter, C-5
Visual Approach, 5-41
VOR Approach, 5-54

W

Waypoints, 3-34, 5-16
Weather Considerations, 5-1
 Part 91, 5-4
 Part 121, 5-5
 Part 135, 5-5
Weather Sources, 5-2
WGS-84, 1-13
Wide Area Augmentation System (WAAS), 1-4, 5-20