

INDEX

A

Advancement of enlisted personnel, 2-18
AFTS, 6-7 to 6-9
AFTS system, 6-16 to 6-17
AIMS Mark 12 IFF system, 7-31 to 7-38
Air-search radars, 7-19 to 7-23
Air-search three-coordinate radars, 7-23 to 7-25
Alden 519M(T)-BA Marine Radio Facsimile
Weather Map Recorder, 6-23
Alterations to ships and equipment, 4-28 to 4-32
Altitude, 7-3 to 7-4
Ammeter, 11-3
Amplitude modulation, 5-4 to 5-5
ANORS, 12-10
AN/SRN-15 Beacon-Transponder Set,
8-24 to 8-28
AN/SRN-18, radio navigation set, 8-16 to 8-17
AN/SRN-19(V)2 radio navigation set functional
description, 8-14 to 8-16
Antenna distribution systems, 5-39 to 5-43
Antennas, 5-43 to 5-48
Antennas and propagation, 5-18 to 5-22
AN-URN-25 radio set, 8-24
AN/UXC-4() (V) tactical digital facsimile
(TDF), 6-23 to 6-24
Appropriation Purchase Account (APA), 15-14
Assembly, 4-3
Audio and video signal generators, 11-8
Automatic test equipment, 11-14
Availabilities, 13-3 to 13-11

B

Bearing, 7-1 to 7-2
Broadband antennas, 5-46 to 5-47

C

Capacitance-inductance-resistance bridge
(SCAT 4457), 11-6
Carrier controlled approach (CCA) equipment,
7-25 to 7-28
Casualty reporting, 12-10
Categories of maintenance, 4-17 to 4-18
Classification, change in, 3-22
Classified documents, destruction of,
3-24 to 3-25
Classified information, categories of,
3-20 to 3-21
Classified material, stowage of,
3-26 to 3-29
Closed circuit television, 10-3
Cognizance symbol, 15-13
Combat System Readiness Review and Elec-
tronics Examining Board, 11-15
Command security programs, 3-29 to 3-30
Communication system equipment, intro-
duction to, 5-30
Communication system operation, 6-10
Communication systems equipment
configurations, 5-48 to 5-55
Communications equipment configuration,
5-55 to 5-56
Communications equipment systems,
5-31 to 5-39
Communications security (COMSEC)
equipment repair and maintenance,
6-27 to 6-28
Communications theory and equipment,
5-1 to 5-65
 antenna distribution systems, 5-39 to 5-43
 hf multicouplers, 5-41 to 5-43
 receiving multicoupler, 5-41

- Communications theory and equipment—Continued
- antennas, 5-43 to 5-48
 - broadband antennas, 5-46 to 5-47
 - matching networks, 5-47 to 5-48
 - uhf antennas, 5-47
 - whip antennas, 5-44 to 5-46
 - wire antennas, 5-43 to 5-44
 - antennas and propagation, 5-18 to 5-22
 - groundwave propagation, 5-19
 - skywave propagation, 5-19 to 5-21
 - spacewave propagation, 5-21 to 5-22
 - communication systems equipment
 - configurations, 5-48 to 5-55
 - high frequency, 5-51 to 5-53
 - low frequency, 5-48 to 5-51
 - ultrahigh frequency, 5-54 to 5-55
 - very high frequency, 5-53 to 5-54
 - communications equipment configuration, 5-55 to 5-56
 - communications equipment systems, 5-31 to 5-39
 - general description, 5-34 to 5-37
 - handset, 5-31 to 5-32
 - radio set control, 5-32
 - radio transmitter T-827()/URT, 5-37 to 5-39
 - radio transmitting set AN/URT-23(V), 5-34
 - transfer switchboards, 5-32 to 5-33
 - transmitters, 5-33 to 5-34
 - continuous wave, 5-2 to 5-3
 - cw transmitter, 5-3
 - designation of modulation classes, 5-18
 - electromagnetic interference (EMI), 5-61 to 5-65
 - electromagnetic compatibility, 5-61 to 5-62
 - Electronics Material Officer's Guide to Shipboard Electromagnetic Interference (EMI) control, 5-63 to 5-65
 - sources of electromagnetic interference, 5-62 to 5-63
 - introduction to communication system equipment, 5-30
 - introduction to equipment systems, 5-30 to 5-31
 - modulation, 5-3 to 5-7
 - amplitude modulation, 5-4 to 5-5
 - frequency and phase modulation, 5-5 to 5-7
- Communications theory and equipment—Continued
- multiplexing, 5-13 to 5-18
 - frequency division multiplexing, 5-15 to 5-18
 - time-division multiplexing, 5-13 to 5-15
 - portable and pack radio equipment, 5-56 to 5-59
 - radio receiver R-1051/URR, 5-39
 - receivers, 5-7 to 5-13
 - receiver characteristics, 5-8 to 5-9
 - single-sideband communications, 5-12 to 5-13
 - superheterodyne receiver (AM), 5-9 to 5-10
 - superheterodyne receiver (FM), 5-10 to 5-11
 - satellite communications, 5-22 to 5-29
 - a basic satellite communication system, 5-22 to 5-23
 - CUDIXS link traffic, 5-29
 - CUDIXS/NAVMACS, 5-27
 - fleet satellite broadcast subsystem, 5-25 to 5-27
 - fleet satellite communications, 5-23 to 5-24
 - general information on NAVMACS, 5-27 to 5-29
 - shore based terminals, 5-24 to 5-25
 - satellites, 5-29 to 5-30
 - FLTSATCOM satellite, 5-29 to 5-30
 - shipboard communication systems quality monitoring (QMCS), 5-59 to 5-60
 - quality monitoring, 5-59 to 5-60
- Complex overhaul (COH), the, 13-19 to 13-20
- Component identification, 4-11
- Confidential, 3-21
- Continuous wave, 5-2 to 5-3
- Controlled area, 3-20
- Controlled equipage, 12-3 to 12-4
- Corrective maintenance, 4-24 to 4-26
- Correspondence, 1-13
- COSAL, 15-17 to 15-25
- COSAL development, 15-18 to 15-21
- COSAL production, 15-21 to 15-25
- CUDIXS link traffic, 5-29
- CUDIXS/NAVMACS, 5-27
- Cw transmitter, 5-3

INDEX

D

Defective material reporting, 12-11
Defense Logistics Agency, 14-6 to 14-7
Defense Supply Centers, 14-6 to 14-7
Departmental budgets, 14-27
Depot (shipyard) level maintenance, 13-2
Destruction of classified documents,
3-24 to 3-25
Differential voltmeter (SCAT 4208), 11-5 to 11-6
Directives, 1-12 to 1-13
Division drill and instruction schedule,
2-9 to 2-10
Dosimeter, 10-14
Duties and responsibilities of an EMO,
1-1 to 1-3

E

ECCM, 10-10
ECM, 10-10
Eight o'clock reports, 12-11
Electrical meters, 11-3 to 11-7
Electrical/electronic test equipment
index, 11-2 to 11-3
Electrical/electronic test equipment,
requirements for, 11-23 to 11-26
Electrical/electronic test equipments,
allowance lists for, 11-26
Electromagnetic compatibility, 5-61 to 5-62
Electromagnetic interference (EMI),
5-61 to 5-65
Electromagnetic radiation, information sources
on resources for hazards of, 3-14 to 3-18
Electromagnetic radiation to ordnance,
hazards of, 3-14
Electromagnetic radiation to personnel,
hazards of, 3-9 to 3-14
Electronic field engineers and technical
assistance, 13-26 to 13-29
Electronic warfare, 10-3 to 10-10
Electronics division, mission of the,
1-1 to 1-8
Electronics division, organizing the,
1-8 to 1-12
Electronics Information Bulletin, 12-14
Electronics Installation and Maintenance Book,
12-12 to 12-14
Electronics material, 15-1 to 15-26
COSAL, 15-17 to 15-25
COSAL development, 15-18 to 15-21
COSAL production, 15-21 to 15-25
Ship's Selected Records (SSR),
15-17 to 15-18
summary, 15-25
how identification to a current NSN is
accomplished aboard ship, 15-10 to 15-13
entry with noun name or physical
description, 15-13
entry with NSN, 15-10
entry with part, drawing, or piece
number, 15-10 to 15-13
management data lists, 15-4 to 15-10
management list-Navy (ML-N) and
related publications, 15-5 to 15-7
miscellaneous sources of
identification, 15-7 to 15-10
material classification, 15-1 to 15-4
Federal Catalog System, 15-1
Federal Supply Classification
system, 15-1
National Stock Number (NSN)
format, 15-1 to 15-2
Navy Item Control Numbers (NICNs),
15-2 to 15-4
North Atlantic Treaty Organization
(NATO) use of the Federal Catalog
System, 15-4
material cognizance, 15-13 to 15-17
Appropriation Purchase Account
(APA), 15-14
cognizance symbol, 15-13
material identification aboard ship,
15-14 to 15-17
Navy Stock Account (NSA), the,
15-13 to 15-14
system improvements by means of
automation, 15-25 to 15-26
Electronics training, 2-12 to 2-13
Emergency bills, 1-10 to 1-12
Emergency destruction, 3-25
Emergency tender availability, 13-3
Emergent essential repair requests, 13-20
EMO, duties and responsibilities of an,
1-1 to 1-3
Enlisted personnel, advancement of, 2-18
Equipage, controlled, 12-3 to 12-4
Equipment designations, 4-1 to 4-11

SHIPBOARD ELECTRONICS MATERIAL OFFICER

Equipment maintenance, levels of,
4-18 to 4-19
Equipment systems, introduction to,
5-30 to 5-31
ESM systems, 10-6 to 10-10
Exclusion area, 3-20
Expenditure of material without survey, 14-25

F

Facsimile, 6-19 to 6-26
Facsimile recorder AN/UXH-2(), 6-22 to 6-23
Facsimile recorder RD-92()/UX, 6-22
Facsimile transceivers TT-41()/TXC-1B and
TT-321A/UX, 6-20 to 6-21
Federal Catalog System, 15-1
Federal Supply Classification system, 15-1
Field calibration technical representatives
(FCTR), 11-20 to 11-21
Field maintenance agents (FMAs),
11-21 to 11-22
Fleet commands, 14-8 to 14-10
Fleet Improvement Logistic Support
Program (FILS), 11-15 to 11-16
Fleet modernization program (FMP),
13-30 to 13-31
Fleet satellite broadcast subsystem,
5-25 to 5-27
Fleet satellite communications, 5-23 to 5-24
Fleet supply, 14-8 to 14-11
FLTSATCOM satellite, 5-29 to 5-30
Frequency and phase modulation, 5-5 to 5-7
Frequency counter (SCAT 4296), 11-10
Frequency division multiplexing, 5-15 to 5-18
Frequency measurements, 11-9 to 11-14
Frequency shift converter CV-172()/U, 6-26
Frequency standards, 11-9 to 11-10

G

General purpose electronic test equipment
(GPETE), 11-23
General Services Administration, 14-7
Getting underway reports, 12-10
Government Property Lost, Damaged, or
Destroyed (GPLD) Survey Certificate
(DD Form 2090), 14-25 to 14-27
GPETE Assets Screening Program (GASP),
11-15

GPETE Loan Pools, 11-15
Groundwave propagation, 5-19
Group, 4-2

H

Handset, 5-31 to 5-32
Hazards of electromagnetic radiation to
ordnance (HERO), 3-14
Hazards of electromagnetic radiation to
personnel (HERP), 3-9 to 3-14
Height-finding radars, 7-10 to 7-11
Hf multicouplers, 5-41 to 5-43
High frequency, 5-51 to 5-53

I

Identification, Friend or Foe (IFF) equipment,
7-12 to 7-14
Identification, miscellaneous sources of,
15-7 to 15-10
Identification to a current NSN aboard ship,
15-10 to 15-13
IFF systems, 7-31 to 7-38
Indicators, 7-11 to 7-12
Information on training, sources of, 2-19
Information sources on resources for hazards
of electromagnetic radiation, 3-14 to 3-18
Infrared equipment (Nancy gear), 10-11 to 10-12
Inspections of ships and equipment,
4-35 to 4-36
Installation and maintenance publications,
12-11 to 12-17
Insulation test set (megger) (SCAT 4452),
11-6
Integrated Naval/DLA supply system,
14-1 to 14-2
Intermediate level maintenance activity (IMA),
13-2
Inventory management, 14-3 to 14-5
Investigative actions required, 3-26

J

Joint electronic type designation system
(JETDS), 4-4 to 4-10

INDEX

K

Keyer adapter KY-44()/FX, 6-24 to 6-25

L

Levels of ship maintenance, 13-1 to 13-3
Limited area, 3-20
Long-range training schedule, 2-9
Loran C, 8-1 to 8-2
Loran systems, 8-1 to 8-2
Low frequency, 5-48 to 5-51
Low level teletype, 6-19

M

Maintenance, 4-17 to 4-36
Maintenance and installation publications, 12-11 to 12-17
Maintenance and material management systems, 4-20 to 4-24
Maintenance, categories of, 4-17 to 4-18
Management data lists, 15-4 to 15-10
Matching networks, 5-47 to 5-48
Material classification, 15-1 to 15-4
Material cognizance, 15-13 to 15-17
Material identification aboard ship, 15-14 to 15-17
Material responsibilities, 4-1 to 4-36
 equipment designations, 4-1 to 4-11
 assembly, 4-3
 component identification, 4-11
 group, 4-2
 joint electronic type designation system (JETDS), 4-4 to 4-10
 part, 4-4
 set, 4-2
 subassembly, 4-3
 system, 4-1 to 4-2
 unit, 4-3
 maintenance, 4-17 to 4-36
 alterations to ships and equipment, 4-28 to 4-32
 categories of maintenance, 4-17 to 4-18
 classes of overhaul work, 4-27 to 4-28
 corrective maintenance, 4-24 to 4-26
 inspections of ships and equipment, 4-35 to 4-36

Material responsibilities—Continued

 maintenance—Continued

 levels of equipment maintenance, 4-18 to 4-19
 maintenance and material management systems, 4-20 to 4-24
 preventive maintenance program, 4-19 to 4-20
 repair activities, 4-26 to 4-27
 repair at the organizational level (ships force repair), 4-26
 reporting changes to equipment configuration, 4-32 to 4-35
 reporting aboard as EMO, 4-11 to 4-17
 relieving process, the, 4-16 to 4-17

MEASURE, 11-16 to 11-19

(Megger) insulation test set (SCAT 4452), 11-6

METER card, 11-19

MILSTRAP, 14-14 to 14-19

Miniature and microminiature electronic repair and certification program (2M), 13-32

Miscellaneous equipment, 10-1 to 10-17

 closed circuit television, 10-3
 electronic warfare, 10-3 to 10-10
 ECCM, 10-10
 ECM, 10-10
 ESM systems, 10-6 to 10-10

 infrared equipment (Nancy gear), 10-11 to 10-12

 radiac equipment, 10-12 to 10-17
 dosimeter, 10-14
 ratemeter, 10-14 to 10-17

 radio direction finders, 10-1 to 10-3

Mission of the electronics division, 1-1 to 1-8

Mobile logistics support force (MLSF), 14-10 to 14-11

Mobile technical units, 13-27 to 13-28

Modulation, 5-3 to 5-7

Modulation classes, designation of, 5-18

Modulation rate, 6-6

Modulator MD-168()/UX, 6-25 to 6-26

Monthly training plan, 2-9

Multimeters, 11-4 to 11-5

Multiplexing, 5-13 to 5-18

Multiplexing equipment, 6-17 to 6-18

N

Naval Electronic Systems Command (NAVELEX), 14-2 to 14-3

Naval electronic systems command fleet liaison program, 11-21, 13-29 to 13-30

Naval Material Command, 14-2 to 14-6

Naval sea systems command detachments, 13-28 to 13-29

Naval Ships Technical Manual, 12-12

Naval shipyards, 13-11

Naval Supply Systems Command (NAVSUP), 14-3

Naval Tactical Data System (NTDS), 9-1 to 9-15
 introduction to NTDS/WDS, 9-1 to 9-15
 command and control, 9-14 to 9-15
 development of Naval Tactical Data System, 9-3
 NTDS Data Processing Subsystem (DPS), 9-5 to 9-7
 NTDS data transmission subsystems, 9-12 to 9-13
 NTDS display system components, 9-7 to 9-12
 NTDS objective, 9-3 to 9-4
 NTDS overview, 9-1 to 9-3
 NTDS system configuration, 9-4 to 9-5
 NTDS system overview, 9-4

Naval Tactical Data system, development of 9-3

Navigation system description, 8-10 to 8-14

Navigation theory and equipment, 8-1 to 8-28
 loran systems, 8-1 to 8-2
 loran C, 8-1 to 8-2

Navstar system, 8-17

Omega navigation system, 8-2 to 8-7
 Omega Receiving Set AN/SRN-12, 8-7
 Omega signal propagation, 8-7
 principles of operation, 8-3 to 8-7

satellite navigation systems, 8-9 to 8-17
 AN/SRN-19(V)2 radio navigation set
 functional description, 8-14 to 8-16
 navigation system description, 8-10 to 8-14
 radio navigation set, AN/SRN-18, 8-16 to 8-17

Ship's Inertial Navigation System, 8-7 to 8-9

Navigation theory and equipment—Continued
 tactical air navigation, 8-18 to 8-28
 AN/SRN-15 Beacon-Transponder Set, 8-24 to 8-28
 AN/URN-25 radio set, 8-24
 TACAN equipment, 8-24
 TACAN principles, 8-18 to 8-24

NAVMACS, general information on, 5-27 to 5-29

Navstar system, 8-17

National Stock Number (NSN) format, 15-1 to 15-2

Navy Campus Program Afloat (PACE), 2-16 to 2-17

Navy Item Control Numbers (NICNs), 15-2 to 15-4

Navy Retail Office, 14-5 to 14-6

Navy Stock Account (NSA), the, 15-13 to 15-14

Nonexpendable shipboard equipment status log 4855/2, 12-8

Non-PERA planned regular overhaul, 13-18 to 13-19

North Atlantic Treaty Organization (NATO)
 use of the Federal Catalog System, 15-4

NSN, entry with, 15-10

NTDS Data Processing Subsystem (DPS), 9-5 to 9-7

NTDS data transmission subsystems, 9-12 to 9-13

NTDS display system components, 9-7 to 9-12

NTDS objective, 9-3 to 9-4

NTDS overview, 9-1 to 9-3

NTDS system configuration, 9-4 to 9-5

NTDS system overview, 9-4

NTDS/WDS, introduction to, 9-1 to 9-15

O

Octopus, 11-12 to 11-14

Ohmmeter, 11-14

Omega navigation system, 8-2 to 8-7

Omega Receiving Set AN/SRN-12, 8-7

Omega signal propagation, 8-7

Operator personnel, training of, 2-17

Organization and administration, 1-1 to 1-13
 correspondence, 1-13
 directives, 1-12 to 1-13
 format, 1-13
 promulgation and dissemination, 1-13
 terminology, 1-12 to 1-13

INDEX

Organization and administration—Continued
mission of the electronics division,
1-1 to 1-8
duties and responsibilities of an EMO,
1-1 to 1-3
standard ship organization, 1-3 to 1-8
organizing the electronics division,
1-8 to 1-12
emergency bills, 1-10 to 1-12
Watch, Quarter and Station Bill, 1-12
Organizational (shipboard) level maintenance,
13-1
Organizing the electronics division, 1-8 to 1-12
Oscilloscopes (SCAT 4308), 11-11
Overhaul, 13-13 to 13-26
Overhaul work, classes of, 4-27 to 4-28

P

Parent tender/automatic availability,
13-3 to 13-5
Part, 4-4
PERA-planned regular overhaul, 13-17 to 13-18
PERAs, 13-20 to 13-22
Personnel advancement requirement (PAR),
2-10
Personnel Qualification Standards (PQS), 2-16
Phase and frequency modulation, 5-5 to 5-7
Portable and pack radio equipment,
5-56 to 5-59
Preventive maintenance program, 4-19 to 4-20
Procurement and issue, 14-12 to 14-14
Product format distribution, 11-19 to 11-20
Propagation and antennas, 5-18 to 5-22
Publications, 12-11 to 12-20

Q

Quality monitoring, 5-59 to 5-60
Quarterly training plan, 2-9

R

Radar detecting methods, 7-4 to 7-5
Radar distribution switchboard, 7-14
Radar equipment, 7-14 to 7-31
Radar performance, factors affecting, 7-6 to 7-9
Radar sets, types of, 7-9 to 7-12

Radar system, basic, 7-5 to 7-14
Radar theory and equipment, 7-1 to 7-38
basic radar system, 7-5 to 7-14
factors affecting radar performance,
7-6 to 7-9
Identification, Friend or Foe (IFF)
equipment, 7-12 to 7-14
radar distribution switchboard, 7-14
types of radar sets, 7-9 to 7-12
determining target position, 7-1 to 7-5
altitude, 7-3 to 7-4
bearing, 7-1 to 7-2
radar detecting methods, 7-4 to 7-5
range, 7-2 to 7-3
IFF systems, 7-31 to 7-38
AIMS Mark 12 IFF system,
7-31 to 7-38
radar equipment, 7-14 to 7-31
air-search radars, 7-19 to 7-23
air-search three-coordinate radars,
7-23 to 7-25
carrier controlled approach (CCA)
equipment, 7-25 to 7-28
repeaters (indicators), 7-28 to 7-31
surface-search radar, 7-14 to 7-19
Radiac equipment, 10-12 to 10-17
Radio direction finders, 10-1 to 10-3
Radio-frequency signal generators, 11-8 to 11-9
Radio navigation set, AN-SRN-18, 8-16 to 8-17
Radio receiver R-1051/URR, 5-39
Radio set controls, 5-32
Radio teletype (RATT) systems, 6-7
Radio transmission security, 3-23 to 3-24
Radio transmitter T-827()/URT,
5-37 to 5-39
Radio transmitting set AN/URT-23(V), 5-34
Radiotelephone security, 3-24
Range, 7-2 to 7-3
Ratometer, 10-14 to 10-17
Recall schedules, 11-19
Receiver characteristics, 5-8 to 5-9
Receivers, 5-7 to 5-13
Receiving multicoupler, 5-41
Record of qualifications at battle stations,
2-10 to 2-12
Records, 12-1 to 12-4

Records, reports, and
 publications, 12-1 to 12-20
 publications, 12-11 to 12-20
 catalogs, lists, indexes, and directories,
 12-17 to 12-18
 installation and maintenance
 publications, 12-11 to 12-17
 records, 12-1 to 12-4
 controlled equipage, 12-3 to 12-4
 3-M Systems, the, 12-1 to 12-3
 reports, 12-4 to 12-11
 additional reports, 12-11
 ANORS, 12-10
 casualty reporting, 12-10
 defective material reporting, 12-11
 eight o'clock reports, 12-11
 getting underway reports, 12-10
 nonexpendable shipboard equipment
 status log 4855/2, 12-8
 ship equipment configuration account-
 ing system (SECAS), 12-4 to 12-8
 survey report, 12-8
 trouble reports, 12-8 to 12-10
 Regular overhaul, 13-3
 Relieving process, the 4-16 to 4-17
 Repair activities, 4-26 to 4-27, 13-1
 Repair at the organizational level, 4-26
 Repair ships, and tenders and SIMAs,
 13-5 to 13-7
 Repair shops, 13-7 to 13-11
 Repeaters (indicators), 7-28 to 7-31
 Reporting aboard as EMO, 4-11 to 4-17
 Reports, 12-4 to 12-11
 Restricted availabilities, 13-3
 RF in-line wattmeter (SCAT 4958), 11-7
 RFCS, 6-7
 RFCS receive system, 6-14 to 6-16
 RFCS send system, 6-10 to 6-14
 Routine destruction, 3-25

S

Safety and security, 3-1 to 3-30
 categories of classified information,
 3-20 to 3-21
 confidential, 3-21
 secret, 3-21
 special markings, 3-21
 top secret, 3-20
 change in classification, 3-22

Safety and security—Continued
 destruction of classified documents,
 3-24 to 3-25
 emergency destruction, 3-25
 routine destruction, 3-25
 preparation and marking, 3-22
 safety, 3-1 to 3-18
 enforcing safety, 3-4 to 3-7
 hazards of electromagnetic radiation
 to ordnance (HERO), 3-14
 hazards of electromagnetic radiation
 to personnel (HERP), 3-9 to 3-14
 information sources on resources for
 hazards of electromagnetic
 radiation, 3-14 to 3-18
 promoting safety, 3-3 to 3-4
 responsibility, 3-1 to 3-2
 safety education, 3-2 to 3-3
 safety requirements in work
 areas, 3-7 to 3-9
 security, 3-18 to 3-20
 definitions of security terms, 3-20
 purpose of security program, 3-19
 security principles, 3-19 to 3-20
 security areas, 3-20
 controlled area, 3-20
 exclusion area, 3-20
 limited area, 3-20
 security violations and compromises,
 3-25 to 3-30
 command security programs,
 3-29 to 3-30
 investigative actions required, 3-26
 stowage of classified material,
 3-26 to 3-29
 transmission, 3-22 to 3-23
 mail, 3-23
 messenger, 3-22
 transmission security, 3-23 to 3-24
 radio transmission security,
 3-23 to 3-24
 radiotelephone security, 3-24
 speed versus security, 3-23
 Safety education, 3-2 to 3-3
 Safety requirements in work areas, 3-7 to 3-9
 Satellite communications, 5-22 to 5-29
 Satellite navigation systems, 8-9 to 8-17
 Satellites, 5-29 to 5-30
 Secret, 3-21
 Security, 3-18 to 3-20
 Security areas, 3-20

INDEX

- Security principles, 3-19 to 3-20
- Security program, purpose of, 3-19
- Security terms, definitions of, 3-20
- Security violations and compromises, 3-25 to 3-30
- Set, 4-2
- Ship equipment configuration accounting system (SECAS), 12-4 to 12-8
- Ship maintenance, levels of, 13-1 to 13-3
- Ship repair facilities, 13-11
- Ship superintendent, the, 13-23 to 13-24
- Shipboard communication systems quality monitoring (QMCS), 5-59 to 5-60
- Shipboard instructor training, 2-13
- Shipboard TAMS management, 11-22 to 11-26
- Shipboard training organization, 2-1 to 2-3
- Ship's force maintenance and repairs, 13-2 to 13-3
- Ship's Inertial Navigation system, 8-7 to 8-9
- Ship's Selected Records (SSR), 15-17 to 15-18
- Shipyards, naval, 13-11
- Shops, 13-24 to 13-25
- Shore based terminals, 5-24 to 5-25
- Signal generators, 11-8 to 11-9
- SIMAs and tenders, and repair ships, 13-5 to 13-7
- Simplex facsimile system, 6-26
- Simplex RFCS teletype system, 6-10
- Single-sideband communications, 5-12 to 5-13
- Skywave propagation, 5-19 to 5-21
- Spacewave propagation, 5-21 to 5-22
- Special purpose electronic test equipment (SPETE), 11-23
- Standard ship organization, 1-3 to 1-8
- Stowage of classified material, 3-26 to 3-29
- Subassembly, 4-3
- Superheterodyne (AM) receiver, 5-9 to 5-10
- Superheterodyne (FM) receiver, 5-10 to 5-11
- Supervision of shipbuilding, conversion and repair, USN command, 13-25 to 13-26
- Supply Operations Assistance Program (SOAP), 14-27 to 14-30
- Supply procedures afloat, 14-11 to 14-23
- Supply support activities ashore, 14-5
- Supply system, 14-1 to 14-30
 - Defense Logistics Agency, 14-6 to 14-7
 - Defense Supply Centers, 14-6 to 14-7
 - General Services Administration, 14-7
 - departmental budgets, 14-27
 - fleet supply, 14-8 to 14-11
 - fleet commands, 14-8 to 14-10
 - mobile logistics support force (MLSF), 14-10 to 14-11
 - integrated Naval/DLA supply system, 14-1 to 14-2
 - Naval Material Command, 14-2 to 14-6
 - inventory management, 14-3 to 14-5
 - Naval Electronic Systems Command (NAVELEX), 14-2 to 14-3
 - Naval Supply Systems Command (NAVSUP), 14-3
 - Navy Retail Office, 14-5 to 14-6
 - supply support activities ashore, 14-5
 - technical systems command functions, 14-2
 - Supply Operations Assistance Program (SOAP), 14-27 to 14-30
 - supply procedures afloat, 14-11 to 14-23
 - MILSTRIP, 14-14 to 14-19
 - procurement and issue, 14-12 to 14-14
 - UMMIPS, 14-19 to 14-23
 - survey, 14-23 to 14-27
 - expenditure of material without survey, 14-25
 - Government Property Lost, Damaged, or Destroyed (GPLD) Survey Certificate (DD Form 2090), 14-25 to 14-27
 - other survey exceptions, 14-25
- Support and test equipment engineering program (STEEP), 13-31
- Surface-search radar, 7-14 to 7-19
- Survey, 14-23 to 14-27
- Survey exceptions, other, 14-25
- Survey report, 12-8
- System, 4-1 to 4-2
- System improvements by means of automation, 15-25 to 15-26

T

TACAN equipment, 8-24
 TACAN principles, 8-18 to 8-24
 Tactical air navigation, 8-18 to 8-28
 TAMS action news, 11-22
 Target position, determining, 7-1 to 7-5
 Technical availability, 13-3
 Technical manuals, 12-14 to 12-15
 Technical training, types of Navy, 2-13 to 2-17
 Teletypewriter and facsimile equipment, 6-1 to 6-28
 basic principles, 6-1 to 6-7
 codes, 6-2 to 6-4
 d.c. circuits, 6-6 to 6-7
 modes of operation, 6-4 to 6-6
 modulation rate, 6-6
 basic systems, 6-7 to 6-19
 AFTS, 6-7 to 6-9
 AFTS system, 6-16 to 6-17
 communication system operation, 6-10
 multiplexing equipment, 6-17 to 6-18
 radio teletype (RATT) systems, 6-7
 RFCS, 6-7
 RFCS receive system, 6-14 to 6-16
 RFCS send system, 6-10 to 6-14
 simplex RFCS teletype system, 6-10
 communications security (COMSEC)
 equipment repair and maintenance,
 6-27 to 6-28
 facsimile, 6-19 to 6-26
 Alden 519M(T)-BA Marine Radio
 Facsimile Weather Map Recorder,
 6-23
 AN/UXC-4() (V) tactical digital
 facsimile (TDF), 6-23 to 6-24
 facsimile recorder AN/UXH-2(),
 6-22 to 6-23
 facsimile recorder RD-92()/UX,
 6-22
 facsimile transceivers TT-41()/
 TXC-1B and TT-321A/UX,
 6-20 to 6-21
 frequency shift converter
 CV-172()/U, 6-26
 keyer adapter KY-44()/FX,
 6-24 to 6-25
 modulator MD-168()/UX,
 6-25 to 6-26
 simplex facsimile system, 6-26

Teletypewriter and facsimile
 equipment—Continued
 low level teletype, 6-19
 TEMPEST, 6-26 to 6-27
 TEMPEST, 6-26 to 6-27
 Tenders and SIMAs, and repair ships,
 13-5 to 13-7
 Test equipment, 11-1 to 11-26
 additional test equipment management
 contacts, 11-21 to 11-22
 field maintenance agents (FMAs),
 11-21 to 11-22
 naval electronic systems command
 fleet liaison program, 11-21
 electrical/electronic test equipment index,
 11-2 to 11-3
 appendices, 11-3
 test equipment index sections,
 11-2 to 11-3
 electrical meters, 11-3 to 11-7
 ammeter, 11-3
 capacitance-inductance-resistance
 bridge (SCAT 4457), 11-6
 differential voltmeter (SCAT 4208),
 11-5 to 11-6
 (megger) insulation test set,
 (SCAT 4452), 11-6
 multimeters, 11-4 to 11-5
 ohmmeter, 11-4
 RF in-line wattmeter (SCAT 4958),
 11-7
 voltmeter, 11-4
 frequency measurements, 11-9 to 11-14
 automatic test equipment, 11-14
 frequency counter (SCAT 4296), 11-10
 frequency standards, 11-9 to 11-10
 octopus, 11-12 to 11-14
 oscilloscopes (SCAT 4308), 11-11
 transistor tester (SCAT 4557), 11-12
 tube tester (SCAT 4548), 11-11
 general test equipment resources/
 information, 11-20 to 11-21
 field calibration technical
 representatives (FCTR),
 11-20 to 11-21
 shipboard TAMS management,
 11-22 to 11-26
 allowance lists for electrical/electronic
 test equipments, 11-26

INDEX

- Test equipment—Continued
- shipboard TAMS management—Continued
 - general purpose electronic test equipment (GPETE), 11-23
 - managing test equipment, 11-22
 - requirements for electrical/electronic test equipment, 11-23 to 11-26
 - responsibility definition, 11-22 to 11-23
 - special purpose electronic test equipment (SPETE), 11-23
 - TAMS action news, 11-22
 - your responsibility, 11-22
 - signal generators, 11-8 to 11-9
 - audio and video signal generators, 11-8
 - radio-frequency signal generators, 11-8 to 11-9
 - test equipment management, 11-14 to 11-20
 - Combat System Readiness Review and Electronics Examining Board, 11-15
 - Fleet Improvement Logistic Support Program (FILS), 11-15 to 11-16
 - GPETE Assets Screening Program (GASP), 11-15
 - GPETE Loan Pools, 11-15
 - MEASURE, 11-16 to 11-19
 - METER card, 11-19
 - product format distribution, 11-19 to 11-20
 - Recall Schedules, 11-19
 - Test equipment, automatic, 11-14
 - Test equipment index sections, 11-2 to 11-3
 - Test equipment management, 11-14 to 11-20
 - Test equipment management contacts, additional, 11-21 to 11-22
 - Test equipment resources/information, general, 11-20 to 11-21
 - 3-M Systems, 4-20 to 4-24, 12-1 to 12-3
 - Time-division multiplexing, 5-13 to 5-15
 - Top secret, 3-20
 - Training, 2-1 to 2-19
 - shipboard training organization, 2-1 to 2-3
 - training responsibilities of the EMO, 2-12 to 2-19
 - advancement of enlisted personnel, 2-18
 - electronics training, 2-12 to 2-13
 - shipboard instructor training, 2-13
- Training—Continued
- training responsibilities of the EMO—Continued
 - sources of information on training, 2-19
 - training of operator personnel, 2-17
 - types of Navy technical training, 2-13 to 2-17
 - training schedules and records, 2-3 to 2-12
 - division drill and instruction schedule, 2-9 to 2-10
 - long-range training schedule, 2-9
 - monthly training plan, 2-9
 - personnel advancement requirement (PAR), 2-10
 - quarterly training plan, 2-9
 - record of qualifications at battle stations, 2-10 to 2-12
 - TYCOM required training, 2-9
 - Training responsibilities of the EMO, 2-12 to 2-19
 - Training schedules and records, 2-3 to 2-12
 - Training, sources of information on, 2-19
 - Transfer switchboards, 5-32 to 5-33
 - Transistor tester (SCAT 4557), 11-12
 - Transmission, 3-22 to 3-23
 - Transmission security, 3-23 to 3-24
 - Transmitters, 5-33 to 5-34
 - Trouble reports, 12-8 to 12-10
 - Tube tester (SCAT 4548), 11-11
 - TYCOM required training, 2-9
- U
- Uhf antennas, 5-47
 - Ultrahigh frequency, 5-54 to 5-55
 - UMMIPS, 14-19 to 14-23
 - Unit, 4-3
- V
- Very high frequency, 5-53 to 5-54
 - Video and audio signal generators, 11-8
 - Voltmeter, 11-4
 - Voyage repairs, 13-3

W

Watch, Quarter and Station Bill, 1-12
 Weapon control radars, 7-11
 Whip antennas, 5-44 to 5-46
 Wire antennas, 5-43 to 5-44
 Work beyond capability of ship's force,
 13-1 to 13-32
 availabilities, 13-3 to 13-11
 emergency tender availability, 13-3
 intermediate maintenance activity
 (IMA), 13-3
 parent tender/automatic availability,
 13-3 to 13-5
 regular overhaul, 13-3
 repair ships, and tenders and
 SIMAs, 13-5 to 13-7
 repair shops, 13-7 to 13-11
 restricted availabilities, 13-3
 technical availability, 13-3
 voyage repairs, 13-3
 electronic field engineers and technical
 assistance, 13-26 to 13-29
 mobile technical units, 13-27 to 13-28
 naval sea systems command
 detachments, 13-28 to 13-29
 fleet modernization program (FMP),
 13-30 to 13-31
 levels of ship maintenance, 13-1 to 13-3
 depot (shipyard) level maintenance,
 13-2
 intermediate level maintenance
 activity (IMA), 13-2

Work beyond capability of ship's
 force—Continued
 levels of ship maintenance—Continued
 organizational (shipboard) level
 maintenance, 13-1
 ship's force maintenance and repairs,
 13-2 to 13-3
 miniature and microminiature electronic
 repair and certification program (2M),
 13-32
 naval electronic systems command fleet
 liaison program, 13-29 to 13-30
 naval shipyards, 13-11
 overhaul, 13-13 to 13-26
 complex overhaul (COH), the,
 13-19 to 13-20
 emergent essential repair requests,
 13-20
 non-PERA planned regular overhaul,
 13-18 to 13-19
 PERAs, 13-20 to 13-22
 PERA-planned regular overhaul,
 13-17 to 13-18
 ship superintendent, the,
 13-23 to 13-24
 shops, 13-24 to 13-25
 supervisor of shipbuilding, conversion
 and repair, USN command,
 13-25 to 13-26
 repair activities, 13-1
 ship repair facilities, 13-11
 support and test equipment engineering
 program (STEPP), 13-31