JANE'S AVIONICS 1984-85

Third edition

Edited by Michael Wilson

JANE'S AVIONICS

THIRD EDITION

EDITED BY
MICHAEL WILSON BSc CEng FBIS MRAeS

1984-85



ISBN 0 7106-0797-0

JANE'S YEARBOOKS

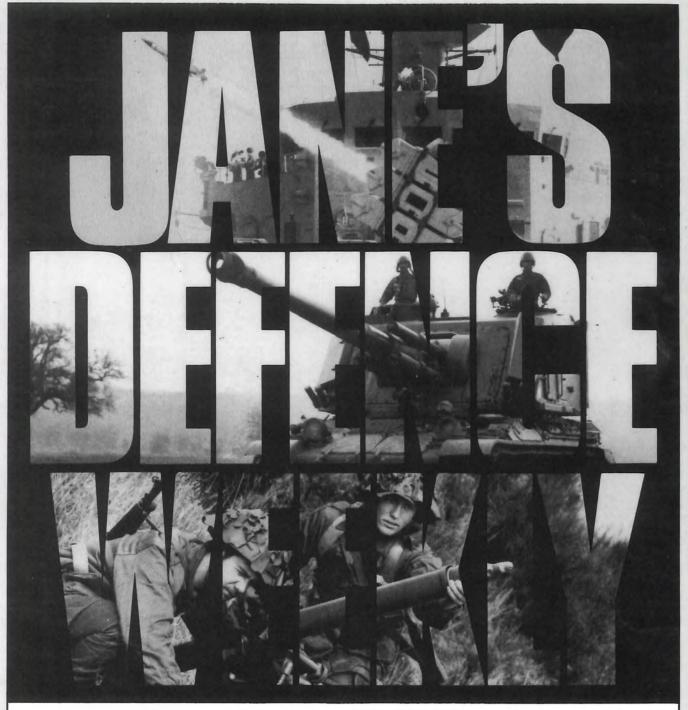
"Jane's" is a registered trade mark

Copyright © 1984 by Jane's Publishing Company Limited, 238 City Road, London EC1V 2PU, England

In the USA and its dependencies by Jane's Publishing Inc, 13th Floor, 135 West 50th Street, New York, NY 10020, USA

Contents

FOREWORD	[23]
GLOSSARY	[33]
Anti-submarine warfare	1
Communications Radio communications Internal communications and in-flight entertainment Headsets, handsets and microphones	17 18 63 70
Data processing Computers Data transmission standards Data transmission equipment Programming languages	77 78 88 91 93
Data recording	95
Displays	117
Electronic warfare	149
Flight control Fly-by-wire flight control Fixed-wing flight control Helicopter flight control	181 182 189 202
Flight instruments and equipment Air data systems and instruments Attitude director indicators Horizontal situation indicators Attitude and heading reference systems Radio altimeters Weight and balance systems	211 212 218 223 226 229 234
Flight performance and management	235
Flight performance and management Lasers	235245
Lasers Navigation and nav/attack Area navigation Beacon navigation Doppler navigation Hyperbolic navigation Inertial navigation Map displays/readers Omega/vlf navigation	245 257 258 262 268 273 276 290 291
Navigation and nav/attack Area navigation Beacon navigation Doppler navigation Hyperbolic navigation Inertial navigation Map displays/readers Omega/vlf navigation Satellite navigation Propulsion management Autothrottles Fuel management Engine control Engine monitoring	245 257 258 262 268 273 276 290 291 297 301 302 304 307 313
Navigation and nav/attack Area navigation Beacon navigation Doppler navigation Hyperbolic navigation Inertial navigation Map displays/readers Omega/vlf navigation Satellite navigation Propulsion management Autothrottles Fuel management Engine control Engine monitoring Engine performance indicators Radar Attack radar Secondary radar Surveillance radar	245 257 258 262 268 273 276 290 291 297 301 302 304 307 313 317 323 324 346 352
Lasers Navigation and nav/attack Area navigation Beacon navigation Doppler navigation Hyperbolic navigation Inertial navigation Map displays/readers Omega/vlf navigation Satellite navigation Propulsion management Autothrottles Fuel management Engine control Engine monitoring Engine performance indicators Radar Attack radar Secondary radar Surveillance radar Weather radar	245 257 258 262 268 273 276 290 291 297 301 302 304 307 313 317 323 324 346 352 364
Lasers Navigation and nav/attack Area navigation Beacon navigation Doppler navigation Hyperbolic navigation Inertial navigation Map displays/readers Omega/vlf navigation Satellite navigation Propulsion management Autothrottles Fuel management Engine control Engine monitoring Engine performance indicators Radar Attack radar Secondary radar Surveillance radar Weather radar Simulation	245 257 258 262 268 273 276 290 291 297 301 302 304 307 313 317 323 324 346 352 364 373
Lasers Navigation and nav/attack Area navigation Beacon navigation Doppler navigation Hyperbolic navigation Inertial navigation Map displays/readers Omega/vlf navigation Satellite navigation Propulsion management Autothrottles Fuel management Engine control Engine monitoring Engine performance indicators Radar Attack radar Secondary radar Surveillance radar Weather radar Simulation Stores management	245 257 258 262 268 273 276 290 291 297 301 302 304 307 313 317 323 324 346 352 364 373



THE FACTS BEHIND THE HEADLINES AND FROM BEHIND THE LINES

The international issues of the day authoritatively reported and reviewed in-depth every week. The latest equipment, defence decisions taken worldwide,

reports from behind the scenes and from behind the lines you'll find the real facts reported first in Jane's Defence Weekly.

For details of subscription and postage rates write to:

Jane's Publishing Co Limited 238-City Road LONDON EC1V 2PU Tel: 01-251 9281

Tlx:

JANE'S
Where the facts are found!

In the United States of America:

Jane's Publishing Inc. 13th Floor

135 West 50th Street New York NY 10020 Tel: 212-586 7745