

1. Record Nr.	UNISOBSOBE00064946
Titolo	[1]: From prehistory to the end of the old regime
Pubbl/distr/stampa	Boston ; Toronto, : Little, Brown and Company, 1975
Descrizione fisica	XXVI, 594, XXIII p. : ill. ; 23 cm
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910464667203321
Autore	Newman David G.
Titolo	Flying Fast Jets : Human Factors and Performance Limitations
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, , 2017
ISBN	1-315-58254-6 1-317-13471-0 1-317-13470-2 1-4094-6794-5
Edizione	[First edition.]
Descrizione fisica	1 online resource (181 p.)
Collana	Human Factors in Defence
Disciplina	629.132/5
Soggetti	Jet planes - Piloting - Physiological aspects Fighter planes - Piloting - Physiological aspects Airplanes - Piloting - Human factors Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Contents; List of Figures; Abbreviations; Foreword; Preface; Acknowledgements; 1 The Fast Jet Environment; Fighter Operations; Definition of a Fighter Aircraft; Fighter Aircraft Generations; Weapons Systems; Guidance system; Warhead; Propulsion system; Fighter Tactics; Fighter Missions; Fighter sweep; Point defence; Strike escort;

Intercepts; Attack Aircraft Operations; Definition of an Attack Aircraft; Weapons Systems; Attack Missions; Attack Aircraft Tactics; Super-Agile Flight; 2 Altitude; Atmospheric Physics; Low Pressure; Hypoxia; Incidence; Signs and Symptoms
Tolerance to Hypoxia
Time of Useful Consciousness; Training; Cockpit Pressurisation; The Fast Jet Pressurisation System; Cockpit Pressurisation Failure; The Oxygen System; Other Altitude Problems; Decompression Illness; Ebullism; Case Study; 3 Acceleration; The Physics of G; Magnitude of G; Direction of G; Physiological Effects of G; Visual Effects of +Gz; A-LOC; G-LOC; Prevalence of G-LOC; Clinical G Problems; +Gz-induced Neck Injuries; Respiratory Effects; Miscellaneous G Effects; G Tolerance; G Protection Measures; G-Suits; Anti-G Straining Manoeuvre; Positive Pressure Breathing
Centrifuge Training
A Glimpse into the High G Future; Case Study; 4 Spatial Disorientation; Definitions; Type I (Unrecognised); Type II (Recognised); Type III (Incapacitating); Prevalence of Spatial Disorientation; Underlying Mechanisms; Illusions by Phase of Flight; Take-off; In-flight Phase; Landing; Risk Factors; Pilot Factors; Aircraft Factors; Operational Factors; Countermeasures; Training; Technology; Case Study; 5 Life Support Equipment; The Flight Suit; The Flight Helmet; Impact Protection; Helmet-Mounted Sighting and Display Systems; Advanced Helmet Design Options; The Oxygen Mask
The G-Suit
Chest Counterpressure Garment; The Survival Vest; The Immersion Suit; The Liquid Cooling Garment; The CBRN Ensemble; Anthropometry; Aircrew Equipment Integration; 6 Situational Awareness; Defining Situational Awareness; The Fast Jet Cockpit; Sensor Systems; Aircraft Performance Sensors; Tactical Situation Sensors; Radar; Infra-red search and track; Targeting FLIR; Threat detection; Displays; Head-Up Displays; Helmet-Mounted Display and Sighting Systems; Joint Helmet-Mounted Cueing System (JHMCS); Night Vision Goggles; Challenges and Limitations; Sensor Fusion; 7 Escape
History of Escape from Aircraft
The Modern Ejection Seat; Anatomy; Performance Specifications; Typical Ejection Sequence; Ejection Posture; Survival Outcomes; Ejection Injuries; The Catapult Phase; The Aircraft Separation Phase; The In-Seat Flight Phase; The Parachute Descent Phase; The Landing Phase; Post-Ejection Considerations; Next-Generation Seats; Case Study; 8 Selection and Training; Selecting the Fast Jet Pilot; Review of Selection Methodologies; Training the Fast Jet Pilot; Fast Jet Flight Training; Use of Flight Simulators; Human Factors Training; Ejection seat training
Spatial disorientation training

Sommario/riassunto

"This book provides a detailed general overview of the human factors and performance limitations associated with flying fast jets, integrating all the latest available research literature on the demanding operational tasks faced by such pilots and aircrews. As such, it has a strong military focus, dealing with pilots of fighter aircraft, attack aircraft and lead-in fighter trainer aircraft that are traditionally only single or dual pilot operations. The book deals not only with the issue of G force, but discusses ejection and escape/survival, disorientation, high altitude physiology, pilot training and selection, helmet-mounted equipment, situational awareness, data fusion and multi-sensor integration, human machine interface issues and advanced cockpit design. It examines the human performance issues associated with the technological advances made in fast jets, such as increased manoeuvrability, increased use of the pilots head as a mounting platform for sensor and weapons systems, and the complexities involved in the human-machine interface within these aircraft."--Provided by publisher.

3. Record Nr.	UNISA996202936203316
Autore	Hartough H. D (Howard Dale), <1913-1992.>
Titolo	Compounds with condensed thiophene rings [[electronic resource]] / H.D. Hartough and S.L. Meisel
Pubbl/distr/stampa	New York, : Interscience, 1954
ISBN	1-282-30141-1 9786612301414 0-470-18656-9 0-470-18806-5
Edizione	[99th ed.]
Descrizione fisica	1 online resource (534 p.)
Collana	Chemistry of heterocyclic compounds ; ; v. 7
Altri autori (Persone)	MeiselS. L <1922-> (Seymour Lionel)
Disciplina	547.594 547/.59/05
Soggetti	Thiophenes Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	COMPOUNDS WITH CONDENSED THIOPHENE RINGS; CONTENTS; I. Factors Influencing Chemical Reactivity and Substitution of Thiophene Systems; I. Introduction; II. Electrophilic Substitution of Furan, Thiophene and Selenophene; III. Electrophilic Substitution of Benzofuran, Thianaphthene, Selenonaphthene and the Thienothiophenes; IV. Electrophilic Substitution of Dibenzofuran, Dibenzothiophene and Dibenzoselenophene; V. Metalation of Thiophene Systems; VI. Reactivity of the Sulfur Atom in Thiophene Systems; II. Thianaphthene and Other Thiophene Compounds Containing One Carbocyclic Fused Ring Introduction A. Thianaphthene and Its Derivatives; Nomenclature; Occurrence of Thianaphthene Nature; I. Preparation of Thianaphthene and Its Homologs; A. Thianaphthene; B. Monoalkylthianaphthenes; C. Dialkylthianaphthenes; D. Trialkylthianaphthenes; E. Arylthianaphthenes; II. Miscellaneous Reactions and Properties; III. The Hydrothianaphthenes; A. 2,3-Dihydrothianaphthene and Its Derivatives; B. 6,7-Dihydrothianaphthene; C. 4,5,6,7-Tetrahydrothianaphthene and Its Derivatives; IV. Halogen Derivatives; V. Nitrogen Derivatives; A.

Nitrothianaphthenes; B. Aminothianaphthenes
C. Derivatives with Nitrogen in a Side Chain VI. Hydroxythianaphthenes (Thianaphthenols or Thioindoxyls); A. Tautomerism of 2- and 3-Hydroxythianaphthenes; B. Preparation of Hydroxythianaphthenes; 1. 2-Hydroxythianaphthenes; 2. 3-Hydroxythianaphthenes; 3. 4-Hydroxythianaphthenes; 4. 5-Hydroxythianaphthenes; 5. 6-Hydroxythianaphthenes; 6. 7-Hydroxythianaphthenes; 7. Di- and Trihydroxythianaphthenes; C. Reactions of Hydroxythianaphthenes; 1. Reactions of the Enol Form; 2. Reactions of the Keto Form; VII. Thianaphthenequinones; A. 2,3-Thianaphthenequinones; B. Benzenoid Thianaphthenequinones
1. 4,5-Thianaphthenequinones 2. 6,7-Thianaphthenequinones; 3. 4,7-Thianaphthenequinones; VIII. Derivatives Containing Hydroxyl Groups in a Side Chain; IX. Carbonyl Derivatives; A. Thianaphthenecarboxaldehydes; B. Keto Derivatives of Thianaphthene; X. Thianaphthenecarboxylic Acids; A. Monocarboxylic Acids; B. 2,3-Thianaphthenedicarboxylic Acid and Its Derivatives; C. 3-Amino-2-thianaphthenecarboxylic Acid; D. 3-Hydroxy-2-thianaphthenecarboxylic Acid; E. Thianaphthenecarboxylic Acids with the Carboxyl Group in the Side Chain; XI. Thianaphthenesulfonic Acids and Thianaphthene Sulfides
XII. Mercury Derivatives XIII. Thianaphthene I-Oxides (Sulfoxides); XIV. Thianaphthene 1-Dioxides (Sulfones); A. Preparation; B. Reactions; B. Isothianaphthene and Its Derivatives; I. The Hydroisothianaphthenes; A. 1,3-Dihydroisothianaphthene o-Xylylene Sulfide); B. 6,7-Dihydro- and 4,5,6,7-Tetrahydroisothianaphthenes; II. Derivatives of Isothianaphthene; C. Miscellaneous Systems; I. Cyclopenta [b] thiophene; II. Cyclohepta[b]thiophene; III. 4,7-Endovinylenethianaphthene; III. Thioindigo and Related Dyes; Introduction; I. Nomenclature; II. Friedlander's Commercial Thioindigo Synthesis
III. Symmetrical Thioindigo Dyes

Sommario/riassunto

Chemistry of Heterocyclic Compounds publishes articles, letters to the Editor, reviews, and minireviews on the synthesis, structure, reactivity, and biological activity of heterocyclic compounds including natural products. The journal covers investigations in heterocyclic chemistry taking place in scientific centers of all over the world, including extensively the scientific institutions in Russia, Ukraine, Latvia, Lithuania and Belarus.
