

SOVIET X-PLANES



Experimental and Prototype Aircraft, 1931 to 1989

Yefim Gordon with Bill Sweetman



Soviet Xplanes

Rachel Sandford



Soviet Xplanes:

Soviet X-planes E. Gordon, Yefim Gordon, Bill Sweetman, 1992 Detailed review of Soviet experimental aircraft from the early 1900s to the latest Russian prototypes of today Describes about 150 aircraft types each with relevant data including many three view drawings

X-Planes Manfred Griehl, 2012-10-24 Renowned German aviation specialist Manfred Griehl has collected a unique and valuable selection of photographs of Luftwaffe projects that never made it into battle They remained on the drawing board or at prototype stage either because they were deemed unsuitable or the developers simply ran out of time and the projects never went into production Most photographs come from the development sites and testing grounds of the major manufacturers of Nazi Germany companies such as Dornier Junkers Focke Wulf and Heinkel all received funding from the government to develop bigger and faster aircraft A huge amount of private testing went on with major organizations such as Daimler Benz BMW and Siemens investing huge amounts in new engine systems and other advances such as radar This book also details the innumerable alterations that were made to existing service aircraft to equip them for new roles There are examples of Fw190s developed for the delivery of chemical and toxic weapons the high altitude Junkers EF 61 the early prototype WNF 342 helicopter as well as numerous examples of developmental jet fighters that could very well have been realized had it not been for the effectiveness of the Allied bombing campaign in restricting the supply of necessary materials

X-Planes from the X-1 to the X-60 Michael H. Gorn, Giuseppe De Chiara, 2022-01-01 Foreword by Dr Roger D Launius Former NASA Chief Historian For the past 75 years the U S government has invested significant time and money into advanced aerospace research as evidenced by its many experimental X plane aircraft and rockets NASA s X Planes asks a simple question What have we gained from it all To answer this question the authors provide a comprehensive overview of the X plane s long history from the 1946 X 1 to the modern X 60 The chapters describe not just the technological evolution of these models but also the wider story of politics federal budgets and inter agency rivalries surrounding them The book is organized into two sections with the first covering the operational X planes that symbolized the Cold War struggle between the U S and the U S S R and the second section surveying post Cold War aircraft and spacecraft Featuring dozens of original illustrations of X plane cross sections in flight profiles close ups and more this book will educate general readers and specialists alike

The Race for Hitler's X-Planes John Christopher, 2012-10-01 During World War 2 Hitler s engineers had pioneered an incredible array of futuristic secret weapons from the Me 262 the first operational jet fighter to the deadly V2 inter continental ballistic missile With the Third Reich shattered and lying in ruins in the summer of 1945 the Allies launched a frantic race to grab what they saw as the justifiable spoils of war The Americans and Russians in particular were anxious to secure not only the aircraft and the research and production facilities but also the key German scientists and engineers This Nazi technology would define the balance of power in the phoney peace of the Cold War era launching an arms race that shaped our modern world for decades to come But what of Britain s role in this supermarket sweep The Race for Hitler s X

Planes tells the untold story of the British mission to Germany Megafast Planes John Farndon,2016-01-01 Are you ready to take off with the world's fastest supersonic aircraft Strap yourself in for a trip in the MiG 25 Foxbat interceptor and clock up to 2 100 mph 3 380 km/h Soar in the NAA X 15 rocket plane which set a record of 4 520 mph 7 274 km/h in 1967 Hop into the world's fastest jet the NASA Hyper X 43 scramjet but hang on it has the potential to go 7 000 mph 11 265 km/h Detailed illustrations put you in the cockpits of these mighty streaking aircraft while bite sized facts explain how they work their pilots daring risks and the thrill of supersonic flight **Into the Black** Rowland White,2016-04-19 A book no aviation buff will want to miss The Wall Street Journal and the perfect tale that educates as it entertains Clive Cussler 1 bestselling author Into the Black recaptures the historic moments leading up to and the exciting story of the astronauts who flew the daring maiden flight of the space shuttle Columbia Using interviews NASA oral histories and recently declassified material Into the Black pieces together the dramatic untold story of the Columbia mission and the brave people who dedicated themselves to help the United States succeed in the age of space exploration On April 12 1981 NASA's Space Shuttle Columbia blasted off from Cape Canaveral It was the most advanced state of the art flying machine ever built challenging the minds and imagination of America's top engineers and pilots Columbia was the world's first real spaceship a winged rocket plane the size of an airliner and capable of flying to space and back before preparing to fly again On board were moonwalker John Young and test pilot Bob Crippen Less than an hour after Young and Crippen's spectacular departure from the Cape all was not well Tiles designed to protect the ship from the blowtorch burn of re entry were missing from the heat shield If the damage to Columbia was too great the astronauts wouldn't be able to return safely to earth NASA turned to the National Reconnaissance Office a spy agency hidden deep inside the Pentagon whose very existence was classified To help the ship the NRO would attempt something never done before Success would require skill perfect timing and luck Set against the backdrop of the Cold War Into the Black is a thrilling race against time and the incredible true story of the first space shuttle mission that celebrates our passion for spaceflight **Technology and the Air Force: A Retrospective Assessment** ,

The X-planes Jay Miller,2001 Chuck Yeager introduces this totally revised and updated version of the complete history of the X Planes Each aircraft is described with coverage of history specs propulsion systems and disposition Rare cockpit illustrations of every manned X Plane are included **Re-entry Systems** Erwin Mooij,2024-12-25 This book explains and describes re entry systems for both the Earth and other planets It provides sufficient information for readers to perform entry mission analysis for different bodies in the Solar System Not only does it discuss re entry flight mechanics but also addresses relevant subsystems and fields enabling readers to put the information into perspective The book begins with a complete description of planetary environments including atmosphere gravity fields and the shape of the primary body After a detailed discussion of planar flight mechanics it then moves on to discuss guidance navigation and control entry descent and landing systems as well as thermal protection systems It uses examples throughout the text enabling the theory to be linked to

practical applications Ideal for those wanting an updated thorough discussion of re entry systems this book is suitable for students and researchers *Technology and the Air Force* Jacob Neufeld,2009-06 Proceedings of a symposium co sponsored by the Air Force Historical Foundation and the Air Force History and Museums Program The symposium covered relevant Air Force technologies ranging from the turbo jet revolution of the 1930s to the stealth revolution of the 1990s Illustrations

History and Evolution of Aircraft Ahmed F. El-Sayed,2024-07-31 History and Evolution of Aircraft reviews the history of aviation from early history to the present day including the evolution milestones of military aircraft civil aircraft helicopters drones balloons airships and their engines It also provides the background and development of different types of aircraft including manned and unmanned vehicles aircraft carriers fixed or rotary wings air sea and amphibian flight vehicles Covering current and developing applications of unmanned aerial vehicles UAVs the book highlights the prospects of future flying vehicles including automotives and jetpacks It follows the transition from piston to jet engines that include shaft based engines turboprop turboshaft and propfan turbine based engines turbojet and turbofan and athodyd engines ramjet turbo ramjet and scramjet The book explores flight vehicles technological advancements and evolution including their geometrical features and performance parameters It will also include nine appendices resembling databases for all types of aircraft The book will be a useful reference for academic researchers and aviation aerospace and mechanical engineering students taking aerodynamics aircraft structures aircraft engines and propulsion courses Aviation history enthusiasts will be interested in the scope of the content as well Instructors can utilize a Solutions Manual for their course **Cordon of Steel** Curtis A.

Utz,1993 **Modern Experimental Aircraft** Bruce LaFontaine,2000-05-01 45 accurately rendered illustrations of dynamic flying prototypes Northrop XP 56 Black Bullet the Bell X 1 rocketplane the diminutive McDonnell XF 85 Goblin parasite more Descriptive captions Airbreathing Hypersonic Propulsion Claudio Bruno,2023-11-27 This book details science of hypersonics especially focusing on propulsion aspects such as supersonic combustion ramjets and their applications and also includes lift and drag in hypersonic flight and their mathematical and physical explanation It provides charts and data from hypersonic testing and measurements from actual vehicles and engines built in the past Criteria to dimension hypersonic powered and unpowered vehicles gliders based on fundamental fluid dynamics and backed by flight testing criteria to preliminary sizing vehicles and preliminary dimensioning of supersonic combustors are introduced The book will serve better theoretical understanding of drag lift and how to apply them to the design of hypersonic vehicles as well as data to size vehicles and supersonic combustion ramjet SCRJ systems This book will be a useful reference for researchers and designers in hypersonic vehicles but also second or third year graduate students **Airman** ,1992 **Secret Wings of World War II** Lance Cole,2015-06-30 There are many myths and legends surrounding the advanced German aeronautical technology of the Second World War There are also facts and proven events Yet within these stories and behind these facts lie conspiracy theories mistaken assumptions and denials that seem to contradict the evidence So what really happened How far ahead

were the German scientists And of even greater interest why and how There have been other books about advanced German wartime aeronautics yet few authors have fully examined the detail of the designs and their relevance to the fighter and bomber legends of the 1950s and 60s let alone the current crop of military and civil all wing or blended wing aircraft This book charts the story from it origins through current day innovations and beyond into the all wing future of tomorrow

Fundamentals of Aircraft and Rocket Propulsion Mr. Rohit Manglik,2023-07-23 Provides an in depth study of jet propulsion thermodynamic cycles rocket engines nozzle design fuel systems and flight mechanics in aerospace applications

Fundamentals of Aircraft and Rocket Propulsion Ahmed F. El-Sayed,2016-05-25 This book provides a comprehensive basics to advanced course in an aero thermal science vital to the design of engines for either type of craft The text classifies engines powering aircraft and single multi stage rockets and derives performance parameters for both from basic aerodynamics and thermodynamics laws Each type of engine is analyzed for optimum performance goals and mission appropriate engines selection is explained Fundamentals of Aircraft and Rocket Propulsion provides information about and analyses of thermodynamic cycles of shaft engines piston turboprop turboshaft and propfan jet engines pulsejet pulse detonation engine ramjet scramjet turbojet and turbofan chemical and non chemical rocket engines conceptual design of modular rocket engines combustor nozzle and turbopumps and conceptual design of different modules of aero engines in their design and off design state Aimed at graduate and final year undergraduate students this textbook provides a thorough grounding in the history and classification of both aircraft and rocket engines important design features of all the engines detailed and particular consideration of special aircraft such as unmanned aerial and short vertical takeoff and landing aircraft End of chapter exercises make this a valuable student resource and the provision of a downloadable solutions manual will be of further benefit for course instructors

American Aircraft Development of the Second World War William Norton,2019-07-06 This book presents a little known aspect of America s aircraft development of World War II in emphasizing unique and non production aircraft or modifications for the purpose of research and experimentation in support of aircraft development advancing technology or meeting narrow combat needs It describes some important areas of American aviation weapons maturation under the pressure of war with emphasis on advanced technology and experimental aircraft configurations The great value of the work is illumination of little known or minimally documented projects that significantly advanced the science of aeronautics propulsion aircraft systems and ordnance but did not go into production Each chapter introduces another topic by examining the state of the art at the beginning of the war advantages pursued and results achieved during the conflict This last is the vehicle to examine the secret modifications or experiments that are little known Consequently this is an important single source for a fascinating and diverse collection of wartime efforts never before brought together under a single cover The war stories are those of military staffs engineering teams and test pilots struggling against short schedules and tight resource constraints to push the bounds of technology These epic and

sometimes life threatening endeavors were as vital as actual combat operations

USSR Information Bulletin ,1943

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