

Lun Class Ekranoplan

Liang Yun,Alan Bliault,Johnny Doo

Soviet and Russian Ekranoplans Sergey Komissarov, Yefim Gordon, 2020 One of the most unusual strands in aviation history has been the development of wing-in-ground effect (WIG) vehicles, or as they are more commonly known by their Russian name, Ekranoplans. Beginning with a brief outline of the concept from the theory to viable technical solutions, this new, expanded edition of *Soviet and Russian Ekranoplans* gives a historical survey of the development of WIG research and construction in Russia. A large part of the book focuses on a type-by-type description of specific designs of ekranoplans developed in the Soviet Union and Russia in the course of half a century. Special emphasis is given to the activities of Rostislav Alekseyev, who has played an enormous role in the development of this new technology. Ekranoplans developed by several other major design bureaus, notably those led by Sukhoi, Bartini and Beriyev, are also considered. Economic and political transformations following the break-up of the Soviet Union led to the emergence of privately-owned design bureaus and firms that are now pursuing the development of WIG aircraft in Russia, given the lack of interest on the part of the military and the state in this branch of transport technology. This new edition has been fully updated to include unpublished photos and diagrams and examples of similar technology being developed in countries outside of Russia, including the USA, Germany and China. This is a welcome update to a book regarded as the definitive work on these unusual and exciting aircraft.

WIG Craft and Ekranoplan Liang Yun, Alan Bliault, Johnny Doo, 2009-12-03 In the last half-century, high-speed water transportation has developed rapidly. Novel high-performance marine vehicles, such as the air cushion vehicle (ACV), surface effect ship (SES), high-speed monohull craft (MHC), catamaran (CAT), hydrofoil craft (HYC), wave-piercing craft (WPC) and small water area twin hull craft (SWATH) have all developed as concepts, achieving varying degrees of commercial and military success. Prototype ACV and SES have achieved speeds of 100 knots in at calm conditions; however, the normal cruising speed for commercial operations has remained around 35-50 knots. This is partly due to increased drag in an average coastal seaway where such craft operate services and partly due to limitations of the propulsion systems for such craft. Water jets and water propellers face limitations due to cavitation at high speed, for example. SWATH are designed for reduced motions in a seaway, but the hull form is not a low drag form suitable for high-speed operation. So that seems to lead to a problem – maintain water contact and either water propulsion systems run out of power or craft motions and speed loss are a problem in higher seastates. The only way to higher speed would appear to be to disconnect completely from the water surface. You, the reader, might respond with a question about racing hydroplanes, which manage speeds of above 200 kph. Yes, true, but the power-to-weight ratio is extremely high on such racing machines and not economic if translated into a useful commercial vessel.

Russia's Ekranoplans Sergey Komissarov, Sergey Komissarov, 2002 8 1/2 x 11 128 pgs 150 color & b&w photos For decades the Soviet Union and now Russia have held leading positions in the development of a special class of vehicles that are neither aircraft nor ships or both at once. Known as wing-in-ground effect (WIGE) craft or by their Russian name of ekranoplan, these vehicles combined the best of both worlds, operating on the borderline between the sky and the sea, offering the speed of an aircraft coupled with better operating economics and the ability to operate pretty much anywhere on the world's waterways. As such they promptly attracted the attention of the military and thus have been veiled in secrecy until recently. The book describes in detail the many series of WIGE vehicles developed by various design bureaus, including the Orlyonok, the only ekranoplan to see squadron service, the missile-armed Loon and the famous and awesome KM, or Caspian Sea Monster, which first attracted the attention of the West to these

developments.

World Submarines H. Sutton, 2017-11-05 The essential guide to the world's submarines, this Covert Shores recognition guide has over 80 full color profile drawings of the submarines in service with the world's navies. These include many submarines which are not widely known of, let alone covered in other books.* Original color illustrations* Silhouettes with Recognition notes* Specifications* History and descriptions* Large format, full color This book is ideal for serious submarine enthusiasts and casual readers alike. If you, or those around you, have served aboard submarines then *World Submarines* will prove an invaluable reference book.

The Hovercraft Ashley Holleb, 2012-08-01 The hovercraft was first created in 1959, when Sir Christopher Cockerell came up with a prototype that crossed the English Channel. The SRN1, the first ever hovercraft, is now proudly housed by the Science Museum and this very British invention enjoys an active role in many arenas, from travel, leisure cruising and racing to lifesaving and transporting goods. This detailed book delves into the history of the hovercraft, from the early days of its development through to the commercial and military applications of the craft. It looks into the exciting world of hovercraft leisure, cruising and racing from amateur to Formula 1, and also explores the important role the hovercraft plays in rescues whether on water or delivering aid around the world in places that helicopters can't reach. Finally, it details the types of hovercraft in use today, and what the future holds. The hovercraft is more than a product of 1960s Britain: it is one that has pushed the boundaries of transport as we look into the future and we have the back-story culture of Britain to thank for its invention.

Investigation of Wings in Ground Effect using Computational Fluid Dynamics Gulraiz Ahmed, 2012-07-05 Master's Thesis from the year 2008 in the subject Engineering - Aerospace Technology, grade: A, University of Southampton, course: Computational Aerodynamics, language: English, abstract: Wing-in-ground effect (WIG) vehicles offer an exciting capability to fill the enormous void between speed of an aircraft and the payload capacity of a ship. WIG vehicles would be able to move cargo and passengers faster than a ship and more economical than an aircraft. Ground effect is a phenomenon that occurs on all wings flying close to the ground or a surface. The aim of this project is to investigate the behavior of wings (NACA/DHMTU series) in ground effect (on a fixed/variable terrain) using Fluent CFD package. The NACA 0012 and DHMTU series used in this project are designed specifically to fly in close proximity to the ground. The performance of the NACA/ DHMTU airfoils is examined for the lift and the drag coefficients at different altitudes with varying angle of attack. The results are compared to experimental data that is available to assess the accuracy of the CFD simulation.

The Dakota Hunter Hans Wiesman, 2015-03-19 A tale of a lifelong passion for a WWII aircraft that changed the author's life: "It is almost like an adventure novel except it is true" (Air Classics). This book tells the story of a Dutch boy who grew up during the 1950s in postwar Borneo, where he had frequent encounters with an airplane, the Douglas DC-3, a.k.a. the C-47 Skytrain or Dakota, of World War II fame. For a young boy living in a remote jungle community, the aircraft reached the proportions of a romantic icon as the essential lifeline to a bigger world for him, the beginning of a special bond. In 1957, his family left the island and all its residual wreckage of World War II, and he attended college in The Hague. After graduation, he started a career as a corporate executive—and met the aircraft again during business trips to the Americas. His childhood passion for the Dakota flared up anew, and the fascination pulled like a magnet. As if predestined, or maybe just looking for an excuse to come closer, he began a business to salvage and convert Dakota parts, which meant first of all finding them. As the demand for these war relic parts and cockpits soared, he began to travel the world to track down surplus, crashed, or derelict Dakotas. He ventured deeper and deeper into remote mountains,

jungles, savannas, and the seas where the planes are found, usually as ghostly wrecks but sometimes still in full commercial operation. In hunting the mythical Dakota, he often encountered intimidating or dicey situations in countries plagued by wars or revolts, others by arms and narcotics trafficking, warlords, and conmen. The stories of these expeditions take the reader to some of the remotest spots in the world, but once there, one is often greeted by the comfort of what was once the West's apex in transportation—however now haunted by the courageous airmen of the past.

Reducing the Logistics Burden for the Army After Next National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee to Perform a Technology Assessment Focused on Logistics Support Requirements for Future Army Combat Systems, 1999-03-22 This study assesses the potential of new technology to reduce logistics support requirements for future Army combat systems. It describes and recommends areas of research and technology development in which the Army should invest now to field systems that will reduce logistics burdens and provide desired capabilities for an Army After Next (AAN) battle force in 2025.

Speculative Everything, With a new preface by the authors Anthony Dunne, Fiona Raby, 2024-04-02 How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making technology easy to use, sexy, and consumable. In *Speculative Everything*, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose “what if” questions that are intended to open debate and discussion about the kind of future people want (and do not want). *Speculative Everything* offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

Speculative Everything Anthony Dunne, Fiona Raby, 2013-12-06 How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making technology easy to use, sexy, and consumable. In *Speculative Everything*, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose “what if” questions that are intended to open debate and discussion about the kind of future people want (and do not want). *Speculative Everything* offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use

the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

Cleared for Takeoff Rowland White, 2016-10-11 All of aviation's dangerous, exciting, and most courageous moments are featured within this stunning compendium on flight. Packed with stories of heroic and innovative pioneers, fascinating profiles of remarkable planes from Spitfires to space shuttles, and how-to instructions for making everything from origami helicopters to bottle rockets—all accompanied by sensational photographs, illustrations, and diagrams—Cleared for Takeoff promises to astonish, entertain, and fire the imaginations of everyone with their head in the clouds.

The Kremlin's Nuclear Sword Steven J. Zaloga, 2014-05-27 The prevailing Western view of Russia's Cold War strategic nuclear weapons policy is that it resulted from a two-part interplay between the leaders of the Communist Party and the military. Steven J. Zaloga has found that a third contributor—the Russian defense industry—also played a vital role. Drawing from elusive Russian source material and interviews with many proud Russian and Ukrainian engineers, Zaloga presents a definitive account of Russia's strategic forces, who built them, and why. The book is the first in English to refer to the weapons by their actual Soviet names, providing the bedrock for future works. Helpful appendices list U.S., NATO, and other designations, and the illustrations provide clear visual references.

Expand Christian Bason, Jens Martin Skibsted, 2022-05-24 Today, it can seem as if the world has nothing but problems. And more than ever the boundaries of those problems are expanding in terms of the speed, scale, and impact by which they can alter business conditions, public governance, entire societies, the health of our planet, and the quality of our lives. Meeting these growing challenges requires ambitious new ways of designing solutions. With *Expand: Stretching the Future By Design*, authors Jens Martin Skibsted, a multiple-award winning designer, entrepreneur, and design philosopher, and Christian Bason, political scientist and CEO of the Danish Design Centre, take readers beyond “design thinking” to challenge current habits and carve out new space for more sustainable innovation. From transforming the ways we do business and reimagining health care, to creating planet-restoring housing and humanizing our digital lives in an age of AI, *Expand* explores how expansive thinking across six key areas—time, proximity, value, life, dimensions, and sectors—can provide radical, useful solutions to a whole host of current problems around the globe. With powerful real-world examples, the book challenges our freewheeling belief in technological determinism and its insensitivity toward ethics, humanity, and the environment. *Expand* is the first book to not just critique design thinking, but welcome it as a starting point for an ambitious, wide-ranging tale of how to expand and think beyond it. The best way to predict the future is to design it. *Expand* is the book that shows us how.

Conceptual Aircraft Design Ajay Kumar Kundu, Mark A. Price, David Riordan, 2019-04-08 Provides a Comprehensive Introduction to Aircraft Design with an Industrial Approach This book introduces readers to aircraft design, placing great emphasis on industrial practice. It includes worked out design examples for several different classes of aircraft, including Learjet 45, Tucano Turboprop Trainer, BAe Hawk and Airbus A320. It considers performance substantiation and compliance to certification requirements and market specifications of take-off/landing field lengths, initial climb/high speed cruise, turning capability and payload/range. Military requirements are discussed, covering some aspects of combat, as is operating cost estimation methodology, safety considerations, environmental issues, flight deck layout, avionics and more general aircraft systems. The book also includes a chapter on electric aircraft design along with a full range of industry standard aircraft sizing analyses. Split into two parts, Conceptual

Aircraft Design: An Industrial Approach spends the first part dealing with the pre-requisite information for configuring aircraft so that readers can make informed decisions when designing vessels. The second part devotes itself to new aircraft concept definition. It also offers additional analyses and design information (e.g., on cost, manufacture, systems, role of CFD, etc.) integral to conceptual design study. The book finishes with an introduction to electric aircraft and futuristic design concepts currently under study. Presents an informative, industrial approach to aircraft design Features design examples for aircraft such as the Learjet 45, Tucano Turboprop Trainer, BAe Hawk, Airbus A320 Includes a full range of industry standard aircraft sizing analyses Looks at several performance substantiation and compliance to certification requirements Discusses the military requirements covering some combat aspects Accompanied by a website hosting supporting material Conceptual Aircraft Design: An Industrial Approach is an excellent resource for those designing and building modern aircraft for commercial, military, and private use.

High Performance Marine Vessels Liang Yun, Alan Bliault, 2014-07-08 High Performance Marine Vessels (HPMV's) range from the Fast Ferries to the latest high speed Navy Craft, including competition power boats and hydroplanes, hydrofoils, hovercraft, catamarans and other multi-hull craft. High Performance Marine Vessels covers the main concepts of HPMV's and discusses historical background, design features, services that have been successful and not so successful, and some sample data of the range of HPMV's to date. Included is a comparison of all HPMV's craft and the differences between them and descriptions of performance (hydrodynamics and aerodynamics). Readers will find a comprehensive overview of the design, development and building of HPMV's.

The Little Book of Aviation Norman Ferguson, 2013-05-01 The Little Book of Aviation is a collection of facts, figures and interesting stories from the world of flight. Sad, humorous, baffling and astounding stories abound, from the pioneering days of the Wright Brothers to the present day, and covering everything from great milestones, famous names who've served, and the greatest of aircraft icons; phantom pilots and aircraft and a glossary of slang; the origins of plane-spotting and unusual aircraft names; great feats and enduring mysteries; lucky escapes and great aircraft in the movies... the trivia is limitless and will appeal to everyone, whether you want help telling your Spitfire from your Messerschmitt or you know a Spitfire I from a Spitfire II!

Totally Amazing Facts About Military Sea and Air Vehicles Cari Meister, 2017-01-01 Readers will learn over 100 facts about military sea and military air vehicles, such as helicopters, bombers, and stealth fighters, as well as, submarines, mammoth ships, and militarized barges. Reluctant readers will love the unusual facts, the amazing colorful spreads, and the lively photos attached to each vehicle's information.

The Fast Facts Encyclopedia of Science & Technology, 2000 Learn about great inventions, space travel, the human body, steam engines, and much, much more.

Introduction to Aerospace Engineering with a Flight Test Perspective Stephen Corda, 2017-01-03 Comprehensive textbook which introduces the fundamentals of aerospace engineering with a flight test perspective Introduction to Aerospace Engineering with a Flight Test Perspective is an introductory level text in aerospace engineering with a unique flight test perspective. Flight test, where dreams of aircraft and space vehicles actually take to the sky, is the bottom line in the application of aerospace engineering theories and principles. Designing and flying the real machines are often the reasons that these theories and principles were developed. This book provides a solid foundation in many of the fundamentals of aerospace engineering, while illuminating many aspects of real-world flight. Fundamental aerospace engineering subjects that are covered include aerodynamics, propulsion, performance, and stability and control. Key features: Covers aerodynamics, propulsion, performance, and stability and control. Includes self-

contained sections on ground and flight test techniques. Includes worked example problems and homework problems. Suitable for introductory courses on Aerospace Engineering. Excellent resource for courses on flight testing. Introduction to Aerospace Engineering with a Flight Test Perspective is essential reading for undergraduate and graduate students in aerospace engineering, as well as practitioners in industry. It is an exciting and illuminating read for the aviation enthusiast seeking deeper understanding of flying machines and flight test.

The Gabriel Hounds Mary Stewart, 2006-11-28 It's all a grand adventure when Christy Mansel unexpectedly runs into her cousin Charles in Damascus. And being young, rich, impetuous, and used to doing whatever they please, they decide to barge in uninvited on their eccentric Great-Aunt Harriet—despite a long-standing family rule strictly forbidding unannounced visits. A strange new world awaits Charles and Christy beyond the gates of Dar Ibrahim—Lady Harriet's ancient, crumbling palace in High Lebanon—where a physician is always in residence and a handful of Arab servants attends to the odd old woman's every need. But there is a very good—very sinister—reason why guests are not welcome at Dar Ibrahim. And the young cousins are about to discover that, as difficult as it is to break into the dark, imposing edifice, it may prove even harder still to escape . . .

Decoding **Lun Class Ekranoplan**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lun Class Ekranoplan**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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








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