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Having run across several books by several authors concerning the topic of flight mechanics and aircraft performance, Philips "Mechanics of Flight" is one of the best. Not only does Philips present things logically and systematically, he also has a gift for explaining why things are the way they are- something severely lacking in other literature.

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This textbook addresses the elementary concepts of flight mechanics, everything from the equations of motion to aircraft performance.

Classic text analyzes trajectories of aircraft, missiles, satellites, and spaceships in terms of gravitational forces, aerodynamic forces, and thrust. Topics include general principles of kinematics, dynamics, aerodynamics, propulsion; quasi-steady and non-steady flight; and applications. 1962 edition.

In many fields of modern physics, classical mechanics plays a key role. However, the teaching of mechanics at the undergraduate level often confines the applications to old-fashioned devices such as combinations of springs and masses, pendulums, or rolling cylinders. This book provides an illustration of classical mechanics in the form of problems (at undergraduate level) inspired — for the most part — by contemporary research in physics, and resulting from the teaching and research experience of the authors. A noticeable feature of this book is that it emphasizes the experimental aspects of a large majority

of problems. All problems are accompanied by detailed solutions: the calculations are clarified and their physical significance commented on in-depth. Within the solutions, the basic concepts from undergraduate lectures in classical mechanics, necessary to solve the problems, are recalled when needed. The authors systematically mention recent bibliographical references (most of them freely accessible via the Internet) allowing the reader to deepen their understanding of the subject, and thus contributing to the building of a general culture in physics./a

The second edition of Flight Stability and Automatic Control presents an organized introduction to the useful and relevant topics necessary for a flight stability and controls course. Not only is this text presented at the appropriate mathematical level, it also features standard terminology and nomenclature, along with expanded coverage of classical control theory, autopilot designs, and modern control theory. Through the use of extensive examples, problems, and historical notes, author Robert Nelson develops a concise and vital text for aircraft flight stability and control or flight dynamics courses.

The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

E M 'Matty' Laird was an American success story. Born into to a working class Chicago family, he turned his innate mechanical abilities and fascination with flight into a career that put him at the top of aviation's pioneers. As early as 1915, he was flying a home-made biplane in exhibitions; and in 1919 he set up shop in Wichita, building the Laird Swallow, America's first commercial aircraft. After moving back to Chicago, he designed and manufactured the LC-R Speedwing series of planes. Laird's planes were high-quality machines which were renowned for their speed. In 1930 and 1931, he built the Solution and Super Solution race planes, flown by Charles 'Speed' Holman and Jimmy Doolittle, respectively. Solution won the Thompson Trophy in 1930, and Super Solution won the first Bendix cross-country race in a record-setting time of less than 12 hours. In this profusely illustrated book, Ed Phillips covers Laird's career, the work of the E M Laird Aircraft Company and the record-setting planes that were produced. It is a fascinating look at the early days of commercial aviation and air racing in the United States and it gives Laird and the aircraft he built, the prominence they deserve

Businesses can plateau, stall, OR stagnate without the owners or key executives even realizing it. A business might be achieving incremental year-on-year growth and yet still be in a situation of stagnation or stall. Why? Because entrepreneurs and ...

This comprehensive volume presents a wide spectrum of information about the design, analysis and manufacturing of aerospace structures and materials. Readers will find an interesting compilation of reviews covering several topics such as structural dynamics and impact simulation, acoustic and vibration testing and analysis, fatigue analysis and life optimization, reversing design methodology, non-destructive evaluation, remotely piloted helicopters, surface enhancement of aerospace alloys, manufacturing of metal matrix composites, applications of carbon nanotubes in aircraft material design, carbon fiber reinforcements, variable stiffness composites, aircraft material selection, and much more. This volume is a key reference for graduates undertaking advanced courses in materials science and aeronautical engineering as well as researchers and professional engineers seeking to increase their understanding of aircraft material selection and design.

In a spine-tingling new collection, the “unique”(NPR) and “wickedly funny” (New York Times) Helen Phillips offers an idiosyncratic series of “what-ifs” about our fragile human condition. Some Possible Solutions offers an idiosyncratic series of "What ifs": What if your perfect hermaphrodite match existed on another planet? What if you could suddenly see through everybody's skin to their organs? What if you knew the exact date of your death? What if your city was filled with doppelgangers of you? Forced to navigate these bizarre scenarios, Phillips' characters search for solutions to the problem of how to survive in an irrational, infinitely strange world. In dystopias that are exaggerated versions of the world in which we live, these characters strive for intimacy and struggle to resolve their fraught relationships with each other, with themselves, and with their place in the natural world. We meet a wealthy woman who purchases a high-tech sex toy in the shape of a man, a rowdy, moody crew of college students who resolve the energy crisis, and orphaned twin sisters who work as futuristic strippers--and with Phillips' characteristic smarts and imagination, we see that no one is quite who they appear. By turns surreal, witty, and perplexing, these marvelous stories are ultimately a reflection of our own reality and of the big questions that we all face. Who are we? Where do we fit? Phillips is a true original and a treasure.

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