



What Makes Airplanes Fly?

By Peter P. Wegener

Springer Sep 2011, 2011. Taschenbuch. Book Condition: Neu. 23.5x19.1x cm. This item is printed on demand - Print on Demand Neuware - Dealing with aerodynamics in the broadest sense, this book discusses, in addition to aeroplanes, the aerodynamics of cars and birds, and the motion of diverse objects through air and water. The fundamental notions of mechanics and fluid dynamics are clearly explained, while the underlying science is discussed rigorously, but using only elementary mathematics, and then only occasionally. To put the science into its human context, the author describes -- with many illustrations -- the history of human attempts to fly and discusses the social impact of commercial aviation as well as the outlook for future developments. This new edition has been brought up to date throughout; solutions to selected exercises have been added, as have new problems and other study aids. How can an airplane weighing many tons stay aloft for many hours, flying so smoothly that the passengers may feel less like they are moving than they would in a car? The answer, of course, lies in the wings and the air they are moving through, and the study of the flow of air around airplane wings...



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