



Principles of Aerostatics: The Theory of Lighter-Than-Air Flight

John A Taylor

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Principles of Aerostatics presents the complete theory of static lift for airships, aerostats and balloons. Concepts are laid out, and building on the derivation of temperature, pressure, density and humidity in the atmosphere and the gas laws, formulas for static lift are derived. The variation of lift with atmospheric and airship parameters, climb and descent, and flight above pressure height are then explored. Both SI and United States Customary Units are employed throughout, and worked examples and calculator programs are provided. The mathematical processes can followed by a reader with an understanding of high school algebra.

"This is an excellent and unique work bringing the strands of basic theory together and rendering them into a workable series of mathematical expressions which can be used by any individual with a hand held scientific calculator. It is a most significant contribution to the LTA industry."

- Dick Chadburn - Former Chairman, The Airship Association

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