

## 7. Charles's Law

### Background

#### Testing Charles's Law

Gases are different from liquids and solids in that they have neither a fixed volume nor a fixed shape. The behavior of gases depends on four variables: *pressure* ( $P$ ), *volume* ( $V$ ), *temperature* ( $T$ ), and *amount* (number of moles,  $n$ ). Three key laws express the relationship between these variables: *Boyle's law*, *Charles's law*, and *Avogadro's law*. These laws express the effect of one variable on another, while the other two variables remain constant. Because volume is relatively easy to measure compared to the other variables, the gas laws are expressed as the effect of one of the other variables on gas volume. Charles's law describes the relationship between the temperature of a gas and its volume.

#### Charles's Law Describes the Effect of Temperature on Volume

Jacques Charles was a physics professor at Sorbonne University in France as well as a hot air balloon enthusiast. Hot air balloons rise when the gas inside is heated, which causes the gas to expand in volume and become less dense. Charles decided to investigate the relationship between gas volume and temperature at constant pressure in his laboratory. Charles's law, proposed in the late eighteenth century, states that *at constant pressure the volume occupied by a fixed amount of gas is directly proportional to its temperature*. In other words, as the temperature increases, the volume increases proportionally and vice versa. This is expressed mathematically using the following equations.

# Lab Manual Charles Law

**C. C. Hedges**



## **Lab Manual Charles Law:**

## Reviewing **Lab Manual Charles Law**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Lab Manual Charles Law**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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