



# Attractive Forces

- Hydrogen bonds occur from an attractive force between hydrogen and either oxygen, nitrogen, or fluorine.
- Van der Waals interactions are weak intermolecular forces that occur between the atoms of compounds and molecules.
  - There are two different types:
    - 1. Dispersion (London) forces.
    - 2. Dipole interactions.

# The Attractive Force

**J. Frederic Daniell**



## **The Attractive Force:**

**Advanced Thermodynamics Engineering, Second Edition** Kalyan Annamalai, Ishwar K. Puri, Milind A. Jog, 2011-03-22

Advanced Thermodynamics Engineering Second Edition is designed for readers who need to understand and apply the engineering physics of thermodynamic concepts. It employs a self-teaching format that reinforces presentation of critical concepts, mathematical relationships, and equations with concrete physical examples and explanations of applications to help readers apply principles to their own real-world problems. Less Mathematical Theoretical Derivations More Focus on Practical Application. Because both students and professionals must grasp theory almost immediately in this ever-changing electronic era, this book now completely in decimal outline format uses a phenomenological approach to problems, making advanced concepts easier to understand. After a decade teaching advanced thermodynamics, the authors infuse their own style and tailor content based on their observations as professional engineers as well as feedback from their students. Condensing more esoteric material to focus on practical uses for this continuously evolving area of science, this book is filled with revised problems and extensive tables on thermodynamic properties and other useful information. The authors include an abundance of examples, figures, and illustrations to clarify presented ideas, and additional material and software tools are available for download. The result is a powerful practical instructional tool that gives readers a strong conceptual foundation on which to build a solid functional understanding of thermodynamics engineering.

[AP Chemistry Premium, 2026: Prep Book with 6 Practice Tests + Comprehensive Review + Online Practice](#) Barron's Educational Series, Neil D. Jespersen, Pamela Kerrigan, 2025-08-05

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