



# Fundamentals of Flight

## A Basic Introduction to Aerodynamics

By Warren Puckett; Physics Instructor & Pilot



# Fundamentals Of Flight

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Flight presents the basic physics of flight the dynamics associated with rotary and FW aircraft and covers basic tactical flight profiles formation flight and maneuvering flight techniques It contains theoretical and practical concepts which Army Aviators and crewmembers apply to tactical and operational expertise technical base from which Army Aviation executes its core competencies     **Fundamentals of Flight** Department Army,2007-05-07 Field manual FM 3 04 203 still presents information to plan and conduct common aviation tasks for fixed and rotary wing flight However it has become more inclusive and its scope broadened to reduce the number of manuals used by Army crewmembers for reference One of the underlying premises of Army aviation is if crewmembers understand why they will be better prepared to do when confronted with the unexpected FM 3 04 203 endeavors to ensure that crewmembers understand the basic physics of flight and the dynamics associated with fixed and rotary wing aircraft A comprehensive understanding of these principles will better prepare a crewmember for flight transition training and tactical flight operations Because the U S Army prepares its Soldiers to operate anywhere in the world this publication describes the unique requirements and flying techniques crewmembers will use to successfully operate in extreme environments not always encountered in home station training As a full time force the U S Army is capable of using the advantages of its superior night operation technologies to leverage combat power To that end Army crewmembers must be familiar and capable of performing their mission proficiently and tactically at night The information on night vision systems NVSs and night operations in this circular will provide the basis for acquiring these skills Every aviator understands that the primary purpose is to operate aircraft safely Every crewmember must perform the mission effectively and decisively in tactical and combat operations FM 3 04 203 also covers basic tactical flight profiles formation flight and air combat maneuvers FM 3 04 203 is an excellent reference for Army crewmembers however it can not be expected that this circular is all inclusive or a full comprehension of the information will be obtained by simply reading the text A firm understanding will begin to occur as crewmembers become more experienced in their particular aircraft study the tactics techniques and procedures TTP of their units and study other sources of information Crewmembers honing skills should review FM 3 04 203 periodically to gain new insights     Weather Fundamentals and Flight Planning ,1985     *The Code of Federal Regulations of the United States of America* ,2004 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government     **Fundamentals of Flight** Aviation Book Company,1970     *Code of Federal Regulations* ,2013 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of with ancillaries     Federal Register ,1995-08     *Federal Aviation Regulations / Aeronautical Information Manual 2009 (FAR/AIM)* Federal Aviation Administration,2008-11-03 All the information you need to operate in U S     *Federal Aviation Regulations* United States. Federal Aviation Administration,1997     **Federal Aviation Regulations and Airmen's Information Manual 2001** Irvin N. Gleim,2000-09     **Title 14 Aeronautics and Space Parts 60 to 109 (Revised as of**

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