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The history of avionics is the history of  
the use of electronics in aviation.  
fundamentals of electronics, analog

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versus digital electronics, aspect of an electric signal is modified proportionally to the real world item that is being represented. analog electronics, Early aircraft were equipped with radio communication and navigational devices that were constructed with analog electronic circuits. digital electronics, Modern aircraft increasingly employs

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Aircraft Communications and Navigation  
Systems: Principles, Operation and  
Maintenance Mike Tooley is a technical  
author and consultant. He was formerly.  
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Inertial navigation systems (INS) were introduced into commercial aircraft service during the early 1970s. The system is able to compute navigation

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data such as present position, distance  
to waypoint, heading, ground speed,  
wind speed, wind direction etc.

## **Aircraft Communications and Navigation Systems**

CNS ATM stands for “Communication,  
Navigation, and Surveillance and Air  
Traffic Management” which was created



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to support modernization of the dated  
and overload prone Air Traffic Control  
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TCAS 1 is mandated on aircraft with  
10-30 seats and identifies traffic in a  
35-40 mile range. TCAS 2 required

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internationally in aircraft with more than 30 seats or weighing more than 15,00kg.

It also provides information of TCAS 1 but also analyzes the projected flightpath of approaching aircraft

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Avionics are the electronic systems used on aircraft, artificial satellites, and spacecraft. Avionic systems include communications, navigation, the display and management of multiple systems,

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and the hundreds of systems that are fitted to aircraft to perform individual functions. These can be as simple as a searchlight for a police helicopter or as complicated as the tactical system for an airborne early warning platform. The term avionics is a portmanteau of the words aviation and electronics.

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In aviation, ACARS (/ 'eɪkɑːrz /; an acronym for Aircraft Communications Addressing and Reporting System) is a digital datalink system for transmission of short messages between aircraft and ground stations via airband radio or satellite. The protocol was designed by ARINC and deployed in 1978, using the

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## **29 AIRFRAME COMMUNICATION & NAVIGATION SYSTEMS**

Much of aviation communication and navigation is accomplished through the use of radio waves. Communication by radio was the first use of radio frequency transmissions in aviation.

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