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Distribution Overview

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Systems Integration

▫ More-Electric-

Airplanes are the

industry trend ▫ MEA is

an enabler for advances

in future airplane system

design, operation and

performance ▫ MEA is a

technology enabler for

energy generation,

storage and conversion

systems and

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technologies □ MEA
contributes to lower
operating costs and
reduces fuel use,
emissions and noise.

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Systems- Integration
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Integrated Power
Systems for Future
Transport Aircraft.
971247. This paper
describes and discusses

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Systems to improve future transport aircraft through integration within the power generation, distribution and utilization elements of the secondary power systems. Integration of hardware and functions along with power management and selection of a common single type of secondary power distribution is

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shown to offer
advantages in cost,
weight, fuel efficiency
and reliability for the
future ...

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The next generation PTMS is expected to progress even further in this direction by more integration with the main engine, main power generation, flight control actuation, and other systems....

Power and Thermal
Management for Future
Aircraft

Power systems that are

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highly integrated on the aircraft level may reduce fuel burn, but the possible gain is estimated to be less than items (1) and (2), so a power system research project is not recommended as a high priority. While not called out explicitly, simulation and modeling improvement are important to all three

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of these projects.

2 Aircraft Propulsion Integration |

Commercial Aircraft ...

The aircraft power and
thermal management
system (PTMS)

developed by

Honeywell combines
the functions of an
auxiliary power unit
(APU), emergency
power unit (EPU),

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environmental control
system...

(PDF) Power and

Thermal Management
for Future Aircraft

2004-01-3204. General
thermodynamic

analytical investigations
on the primary

components of aircraft
power systems, as well

as vehicle integration
and mission

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Systems, have revealed that thermal management plays a key role in limiting payload size and performance.

All power system components such as batteries, capacitors, power semiconductors, generators, pulsed power sources and beam conditioners have thermal design issues when their performance

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Systems to deliver
higher powers.

Integration Challenges

Thermal Management Challenges For Future Military Aircraft ...

electrical power systems
integration. Already,
digitally controlled
electrical motors and fly-
by-wire controls are
replacing their hydraulic
and pneumatic
predecessors.

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Passengers expect on-board power charging stations and constantly-in-touch entertainment systems. Militaries require electrical power to support their growing use of unmanned aerial vehicles.

Delivering innovative
end-to-end electrical
power systems ...

The Air Systems

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Systems is the science and technology (S&T) focal point and integration hub for defence aviation in the air, maritime and land environments. Published 1 January 2018 From:

Air Systems Programme
- GOV.UK

April 17, 2015 Omid
Orfany Management.
The trend in modern

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aircraft design is away from mechanical systems (hydraulics, pneumatics, etc.) and toward electrical components, or Aircraft Electrical Power Distribution Systems.

There are several benefits of the modern design (particularly weight savings).

However, as with any airplane design, no

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Systems can be fielded before it can be proven safe, reliable, and able to be maintained over the aircraft's life.

Introduction to aircraft electrical power distribution systems
Future aircraft and the airspace systems, however, will increasingly rely on "cyber" advances,

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particularly, in network and information technologies. We envision that "cyber-physical" integration is central to the design and performance of these future aviation information systems. We propose a Cyber-Physical System (CPS) abstraction as a missing framework for future aviation information

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Integration
Challenges
Cyber-physical
integration in future
aviation information ...

Power systems and
requirements for
integration of smart
structures into aircraft

Allen J. Lockyer a,
Christopher A. Martin a,
Doug K. Lindner b, and
Peter S. Walia a

aNorthrop Grumman

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Corporation, One
Hornet Way, MS
9L11/W2, El Segundo,
CA 90245 bVirginia
Polytechnic Institute
and State University,
340 Whittemore,
Blacksburg, VA 24061

Power systems and
requirements for
integration of smart ...
aircraft structure no
longer being fully

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Systems with the
electrical power system.
Integration
Challenges
There is a need to
integrate these two
systems to fully
maximize the
performance benefits of
CFRP, and optimize the
weight and volume of
the electrical power
system. A first step in
this integration is to
identify an appropriate
fault management

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Grounding topologies
for resilient, integrated
composite ...

For 100 years, Boeing
has led manned and
unmanned technology
innovation and
integration from sea to
air to space. Autonomy
will define the next 100
years □ and Boeing is
driving the safe
innovation and

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integration of autonomy
to maximize human
potential.

Boeing: Autonomous Systems

This paper investigates
the use of structural
power composites in
Airbus A220-100
aircraft cabins by
integrating floor panels
with face sheets made of
structural power

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composites to power the
in-flight entertainment
system. This application
requires a minimum
specific energy of 305
Wh/kg and a minimum
specific power of 0.610
kW/kg.

STRUCTURAL
POWER
PERFORMANCE
REQUIREMENTS FOR
FUTURE ...

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Aircraft Engineering
and Aerospace
Technology - Volume
86 Issue 6. A hybrid

engine concept for multi-
fuel blended wing body

Arvind Gangoli Rao,
Feijia Yin, Jos P. van
Buijtenen □ The purpose
of this paper is to

present a novel hybrid
engine concept for a
multi-fuel blended wing
body (MFBWB) aircraft

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Systems
and assess the
performance of this
Integration
engine concept.
Challenges

Aircraft Engineering
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structures products, GE
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business is bringing the
future of flight to

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general aviation aircraft.
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flight management
systems that enhance the
capacity of the skies,
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advanced technologies
critical to superior
aircraft performance and

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aviation to the next
level.

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future ATM systems
which have been at the
forefront of
postgraduate education
in aerospace
engineering since 1946.

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... ▯ Avionics systems
integration and testing ▯

Fundamental concepts

... In particular, to
provide students with an
appreciation of the
considerations necessary
when selecting aircraft
power systems and ...

Avionic Systems Design
option - MSc in
Aerospace Vehicle ...
A new Danish traffic

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Systems platform
for drones, paving the
way for integration of
drones into Danish

Airspace, is currently
being tested on Funen.

The so-called UTM
platform serves to
ensure safe and efficient
flight of thousands of
commercial drones, in
full integration with
conventional air traffic.

In the coming years,

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drones will be
occupying []

Integration Challenges

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