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| Engine Ice, fuel cap and levers Installed! New Boeing 787  
Engine Issue

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Engine Ice at AIMExpo 2019 100 Years of Reimagining Flight  
GENx Keeps Delivering 787 Engine Ice

The transition from bleed-air power to an electric architecture reduces the mechanical complexity of the 787. The only remaining bleed system on the 787 is the anti-ice system for the engine inlets.

AERO - Boeing 787 from the Ground Up

The warning comes after six planes powered by GE's GENx - five 747-8s and one 787 - suffered temporary loss of thrust while flying at high altitude from April to November this

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year. The problem was...

Boeing 787 Dreamliner nightmare as airlines warned about

...

Boeing spokesman Marc Britel says ice crystal formation can decrease performance in some of the jet engines. Airlines with affected aircraft include United Airlines, Japan Airlines and Air India....

Boeing 787 Dreamliners facing engine icing problems | ABC7 ...

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The 787 utilizes an electro-thermal ice protection scheme, in which several heating blankets are bonded to the interior of the protected slat leading edges. The heating blankets may then be energized simultaneously for anti-icing protection or sequentially for deicing protection to heat the wing leading edge.

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The engine carries composite technology into the fan case. The engine market for the 787 is estimated at US\$40 billion over the next 25 years. A first is the elimination of bleed air systems using high temperature/high pressure air from the propulsion engines to power aircraft systems such as the

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starting, air-conditioning and anti-ice systems.

### General Electric GENx - Wikipedia

The 787 Dreamliner is powered by new-generation engines from GE and Rolls-Royce that offer improvements in fuel consumption, noise, and emissions. By Stephen F. Clark, Senior Technical Fellow, Propulsion Systems Engine manufacturers have developed systems that represent nearly a two-generation jump in technology.

### 787 Propulsion System - Boeing

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Wing ice protection is another new system; it uses electro-thermal heater mats on the wing slats instead of traditional hot bleed air. An ... By early 2019, Emirates was considering canceling its 787-10 order, due to engine margins being insufficient for the hot Dubai weather, in favor of the A350 (which would also replace its last A380 order). The order was no longer mentioned in Emirates ...

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Boeing 787 Dreamliner - Wikipedia

The warning from the Federal Aviation Administration Authority (FAA) comes after an engines on a Japan Airlines 787 Dreamliner shut down mid-flight and could not be restarted.

Urgent repair for nearly 200 Dreamliner planes over engine

...

Power consumption for this service is 45 to 75 kW. Anti-icing capability requires a power supply of 150 to 200 kW on an aircraft the size of a 787. “ We ’ re trying to keep power consumption to a minimum on the Dreamliner, ” says Bamford. “ We only need enough power to break the adhesion of ice to the structure to shed ice from the wing. ”

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787 integrates new composite wing deicing system ...  
Boeing 787 Engines ' Ice Risk Spurs FAA to Warn Airlines  
Tim Catts and Alan Levin, SHARE THIS ARTICLE. Share  
Tweet Post ... The twin-engine Dreamliner, the first jet made  
chiefly of composite ...

Boeing 787 Engines ' Ice Risk Spurs FAA to Warn Airlines ...  
To date, our Ice Protection Systems have been adopted on  
the following Platforms: Boeing 787 Dreamliner Wing  
Leading Edge Pratt & Whitney F135 Engine Inlet Lockheed  
Martin F35 Lightning II Lift Fan Inlet

Ultra PCS » Ice Protection Systems

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Trent 1000 engines have been used for the first test flights of every version of the Dreamliner: the 787-8, back in 2009; the 787-9, four years later; and now the 787-10. Rolls-Royce 's latest ...

Since its first flight on 15 December 2009, the Boeing 787 'Dreamliner' has been the most sophisticated airliner in the world. It uses many advanced new technologies to offer unprecedented levels of performance with minimal impact on the environment. Flying the Boeing 787 gives a pilot's eye view of what it is like to fly this remarkable machine. It takes the reader on a trip from Tokyo to Los Angeles as the flight

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crew see it, from pre-flight planning, through all the phases of the flight to shut-down at the parking stand many thousands of miles from the departure point. Lavishly illustrated with specially taken photographs of the B787's controls and instruments, this book will be of interest not just to commercial pilots, but to all aviation enthusiasts: it gives an insight into a world normally hidden for the flying public, at the technical and operational cutting edge of commercial flying. Gives a pilot's eye view of flying this remarkable machine - the Boeing 787 'Dreamliner'. Also an insight into a world normally hidden from the flying public, at the technical and operational cutting edge of commercial flying. Lavishly illustrated with 176 specially-taken colour photographs of the B787's controls and instruments.

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With the launch of its superjumbo, the A380, Airbus made what looked like an unbeatable bid for commercial aviation supremacy. But archrival Boeing responded: Not so fast. Boeing ' s 787 Dreamliner has already generated more excitement--and more orders--than any commercial airplane in the company ' s history. This book offers a fascinating behind-the-scenes look at the first all-new airplane developed by Boeing since its 1990 launch of the 777. With hundreds of photographs, Boeing 787 Dreamliner closely details the design and building of Boeing ' s new twin-engine jet airliner, as well as the drama behind its launch. Here are the key players, the controversies, the critical decisions about materials and technology--the plastic reinforced with carbon

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fiber that will make this mid-sized widebody super lightweight. And here, from every angle, is the Dreamliner itself, in all its gleaming readiness to rule the air.

Viewing transportation through the lens of current social, economic, and policy aspects, this four-volume reference work explores the topic of transportation across multiple disciplines within the social sciences and related areas, including geography, public policy, business, and economics. The book ' s articles, all written by experts in the field, seek to answer such questions as: What has been the legacy, not just economically but politically and socially as well, of

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President Eisenhower ' s modern interstate highway system in America? With that system and the infrastructure that supports it now in a state of decline and decay, what ' s the best path for the future at a time of enormous fiscal constraints? Should California politicians plunge ahead with plans for a high-speed rail that every expert says—despite the allure—will go largely unused and will never pay back the massive investment while at this very moment potholes go unfilled all across the state? What path is best for emerging countries to keep pace with dramatic economic growth for their part? What are the social and financial costs of gridlock in our cities? Features: Approximately 675 signed articles authored by prominent scholars are arranged in A-to-Z fashion and conclude with Further Readings and cross

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references. A Chronology helps readers put individual events into historical context; a Reader ' s Guide organizes entries by broad topical or thematic areas; a detailed index helps users quickly locate entries of most immediate interest; and a Resource Guide provides a list of journals, books, and associations and their websites. While articles were written to avoid jargon as much as possible, a Glossary provides quick definitions of technical terms. To ensure full, well-rounded coverage of the field, the General Editor with expertise in urban planning, public policy, and the environment worked alongside a Consulting Editor with a background in Civil Engineering. The index, Reader ' s Guide, and cross references combine for thorough search-and-browse capabilities in the electronic edition. Available in

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both print and electronic formats, Encyclopedia of Transportation is an ideal reference for libraries and those who want to explore the issues that surround transportation in the United States and around the world.

This edited volume examines metallurgical technologies and their place in society throughout the centuries. The authors discuss metal alloys and the use of raw mineral resources as well as fabrication of engineered alloys for a variety of applications. The applications covered in depth include financial, mining and smelting, bridges, armor, aircraft, and power generation. The authors detail the multiple levels and scales of impact that metallurgical advances have had and continue to have on society. They

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include case studies with guidance for future research design and innovation of metallic materials relevant to societal needs. Includes case studies written by industry professionals with guidance for future research design and innovation; Demonstrates metal materials design that reflects relevant societal needs; Covers a broad range of applied materials used in aircraft, armor, bridges, and power generation, among others.

This is a PhD dissertation. The work presented in this monograph was carried out at the Department of Power Electronics and Electrical Machines, Faculty of Electrical and Control Engineering at the Gdansk University of Technology. Developed during the research models of brushless

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synchronous generator were verified using FEM based simulations and measurements conducted on the prototype generator. The main focus of the research was toward a brushless synchronous generator in variable frequency modern more electric aircraft power systems. The generator prototype was developed and its performance was analyzed with the focus on the higher rotational velocity of the prototype components and the generated power quality. For this FEM based and circuit models of the generator were developed and the machine performance was measured and simulated. The proposed circuit model allowed for the inclusion of nonsinusoidal spatial distribution of the magnetic flux along the air gap which in turn allowed for simulation-based power quality analysis.

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This handbook provides a comprehensive but concise reference resource for the vast field of petroleum technology. Built on the successful book "Practical Advances in Petroleum Processing" published in 2006, it has been extensively revised and expanded to include upstream technologies. The book is divided into four parts: The first part on petroleum characterization offers an in-depth review of the chemical composition and physical properties of petroleum, which determine the possible uses and the quality of the products. The second part provides a brief overview of petroleum geology and upstream practices. The third part exhaustively discusses established and emerging refining technologies from a practical perspective, while the

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final part describes the production of various refining products, including fuels and lubricants, as well as petrochemicals, such as olefins and polymers. It also covers process automation and real-time refinery-wide process optimization. Two key chapters provide an integrated view of petroleum technology, including environmental and safety issues. Written by international experts from academia, industry and research institutions, including integrated oil companies, catalyst suppliers, licensors, and consultants, it is an invaluable resource for researchers and graduate students as well as practitioners and professionals.

Eminent physicist and economist, Robert Ayres, examines the history of technology as a change agent in society, focusing

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on societal roots rather than technology as an autonomous, self-perpetuating phenomenon. With rare exceptions, technology is developed in response to societal needs that have evolutionary roots and causes. In our genus Homo, language evolved in response to a need for our ancestors to communicate, both in the moment, and to posterity. A band of hunters had no chance in competition with predators that were larger and faster without this type of organization, which eventually gave birth to writing and music. The steam engine did not leap fully formed from the brain of James Watt. It evolved from a need to pump water out of coal mines, driven by a need to burn coal instead of firewood, in turn due to deforestation. Later, the steam engine made machines and mechanization possible. Even quite simple

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machines increased human productivity by a factor of hundreds, if not thousands. That was the Industrial Revolution. If we count electricity and the automobile as a second industrial revolution, and the digital computer as the beginning of a third, the world is now on the cusp of a fourth revolution led by microbiology. These industrial revolutions have benefited many in the short term, but devastated the Earth's ecosystems. Can technology save the human race from the catastrophic consequences of its past success? That is the question this book will try to answer.

Civil Avionics Systems, Second Edition, is an updated and in-depth practical guide to integrated avionic systems as applied to civil aircraft and this new edition has been

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expanded to include the latest developments in modern avionics. It describes avionics systems and potential developments in the field to help educate students and practitioners in the process of designing, building and operating modern aircraft in the contemporary aviation system. Integration is a predominant theme of this book, as aircraft systems are becoming more integrated and complex, but so is the economic, political and technical environment in which they operate. Key features:

- Content is based on many years of practical industrial experience by the authors on a range of civil and military projects
- Generates an understanding of the integration and interconnectedness of systems in modern complex aircraft
- Updated contents in the light of latest applications

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- Substantial new material has been included in the areas of avionics technology, software and system safety. The authors are all recognised experts in the field and between them have over 140 years' experience in the aircraft industry. Their direct and accessible style ensures that *Civil Avionics Systems, Second Edition* is a must-have guide to integrated avionics systems in modern aircraft for those in the aerospace industry and academia.

*Commercial Airplane Design Principles* is a succinct, focused text covering all the information required at the preliminary stage of aircraft design: initial sizing and weight estimation, fuselage design, engine selection, aerodynamic analysis, stability and control, drag estimation, performance analysis,

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and economic analysis. The text places emphasis on making informed choices from an array of competing options, and developing the confidence to do so. Shows the use of standard, empirical, and classical methods in support of the design process Explains the preparation of a professional quality design report Provides a sample outline of a design report Can be used in conjunction with Sforza, Commercial Aircraft Design Principles to form a complete course in Aircraft/Spacecraft Design

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