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The Aviator's Review

"Aviationizing Pakistan"



THE WAVES OF THE SKY

HOW ATMOSPHERIC WAVES SHAPE FLIGHT

NEXT STOP: SPACE

THE FUTURE OF EXPLORATION AWAITS

AVIATION IN PAKISTAN

INSPIRING THE NEXT GENERATION OF PILOTS

AVIATION MANAGEMENT

DRIVING ECONOMIC GROWTH IN DEVELOPING NATIONS

**THE INAUGURAL
EDITION**

VOLUME 1 | ISSUE 1



Editorial Note



My name is Farhan Kamal Azeemi, and I am the Editor and Founder of The Aviator's Review, as well as a student of the Diploma in Aviation Business Management (2025–2027). It is a privilege to contribute to **The Aviator's Review**, a platform that reflects the academic excellence, professional aspirations, and passion for aviation shared by our Aviator's community.

I extend my sincere gratitude to Dr. Wali Mughni, Chairman & CEO of the Aviation Institute of Management, and Mr. Azeez Siddiqui, Advisor – Principal, Strategies & Projects, for their visionary guidance, encouragement, and continuous support. Their leadership has been instrumental in shaping both our academic journey and this inaugural publication.

This first issue represents a small but meaningful step toward building a platform where aviation students and teachers can share their perspectives, discuss new trends, analyze accidents, and explore different topics related to the aviation industry.

Through our interesting articles, we aim to inspire curiosity and encourage a deeper understanding of the aviation world. Our objective is to create a space where students can share their perspectives, exchange ideas, and allow others to learn from their experiences, insights, and research within the field of aviation.

As we present this first issue, we sincerely hope that our readers will support this initiative and benefit from the knowledge and ideas shared in these pages. This magazine may begin as a small college publication, but it is created with a passion for aviation and a vision for growth. With the encouragement and participation of students, teachers, and aviation enthusiasts, we believe that The Aviator's Review can develop into a meaningful source of learning, discussion, and inspiration in the aviation community. The future of this publication depends on the curiosity, ideas, and support of its readers, and we look forward to growing together in the journey ahead.

This inaugural edition of The Aviator's Review features aviation-focused articles, an aviation exhibition gallery, and inspiring quotations that reflect the spirit of innovation and dedication within our community.

In upcoming editions, we plan to introduce aviation-themed jokes, illustrations, and cartoons, offering a lighter, more engaging side to complement the academic and professional content.

We warmly encourage students and faculty members to contribute articles, research, and creative work for future editions. Your participation will strengthen this platform and help cultivate a vibrant culture of learning and professional growth within the aviation sector.

Finally, I would like to express my heartfelt thanks to our teachers, mentors, institute management, and fellow students for their support in making this inaugural edition possible. I hope our readers will enjoy and appreciate the dedication and collective effort behind The Aviator's Review.

— Farhan Kamal Azeemi
Editor & Founder, The Aviator's Review
Student, Diploma in Aviation and Business Management (DABM)

“ In this edition of The Aviator's Review, we bring you insightful articles on Awareness of Aviation in Pakistan, the exciting developments in Space Tourism, How Waves Shape the World of Aviation, and Aviation Management as a Catalyst for Economic Growth in developing countries like Pakistan. This issue also features fascinating Aviation Facts, an inspiring aviation quote, and a gallery from the Aviation Awareness Exhibition at AIM. celebrate our passion for flight.”

AVIATION INSTITUTE OF MANAGEMENT

Aviationizing all the way!



**Dr. Wali Mughni, PhD,
FRAeS, SBT**

Dr. Wali Mughni is the CEO and Chairman of the Aviation Institute of Management (AIM) and a distinguished aviation professional with over 40 years of experience in aviation, training, and education. A retired fighter pilot, he is a recipient of the prestigious Sher Afghan (Top Gun) title and the Sitara-e-Basalat for his exceptional service. His leadership and expertise continue to shape AIM's commitment to excellence in aviation education.

About us

Aviation Institute of Management (AIM), Karachi is a leading aviation education and training institute based in Karachi, Pakistan. Established in 2016, AIM is dedicated to shaping the next generation of aviation professionals by offering high-quality academic programs, professional certifications, and industry-focused training that align with international aviation standards.

Located in the vibrant neighborhood of Gulistan-e-Johar, Karachi, AIM provides a transformative learning environment designed to foster professionalism, ethical leadership, and a spirit of research and innovation. The institute emphasizes a hands-on approach, combining rigorous theoretical knowledge with practical industry exposure to prepare students for the dynamic and highly competitive fields of aviation, airlines, airports, and aerospace.

Through its comprehensive programs, AIM not only equips students with the technical skills required for operational excellence but also instills critical thinking, problem-solving abilities, and leadership qualities, ensuring they are ready to contribute effectively to the global aviation industry.





Exclusive Partnership with **EMBRY-RIDDLE** Aeronautical University

AIM proudly holds a unique and distinguished position in Pakistan's aviation education landscape as the only institute in Karachi and across Pakistan that officially represents and partners with Embry-Riddle Aeronautical University (ERAU), USA - the world's largest and most prestigious aviation and aerospace university.

Through this exclusive affiliation, AIM offers internationally recognized aviation management programs and graduate certificates delivered under the academic standards of Embry-Riddle.

This provides Pakistani students with access to globally respected qualifications without the need to travel abroad.

Students can pursue Embry-Riddle programs locally at AIM or participate in online courses, enabling them to earn international credentials while remaining in Pakistan. This opportunity significantly reduces financial burden while maintaining world-class academic quality.

For aspiring aviation professionals in Pakistan, this partnership represents a gateway to global aviation careers - empowering students with internationally competitive education, advanced industry knowledge, and enhanced career prospects in airlines, airports, aerospace organizations, and aviation management worldwide.



Our Mission

AIM's mission is to cultivate ethically grounded, professionally competent, and globally competitive aviation leaders. The institute strives to support Pakistan's aviation growth by developing skilled professionals who uphold international standards of excellence, integrity, and innovation. Through a combination of academic rigor and practical industry training, AIM prepares students to tackle real-world challenges in aviation. By fostering leadership, critical thinking, and a spirit of innovation, the institute aims to contribute meaningfully to the advancement of Pakistan's aviation sector.



Mr. Azeez Siddiqui, MA (Econ), MBA (IBA)
 With over 40 years of experience in airline operations and strategic planning, Mr. Azeez Siddiqui began his career at PIA and later served at Saudi Arabian Airlines. He currently serves as the Principal of the Aviation Institute of Management, where he also advises on Strategies & Projects, playing a key role in shaping aviation leadership and management programs for the next generation of professionals.

Table of Content

Quote



by Editorial Team

06

Next Stop: Space



by Farhan Kamal Azeemi

07

Aviation Management: A Catalyst for Economic Growth in Developing Countries like Pakistan

by Dr. Wali Mughni

11

Awareness of the Aviation Field in Pakistan



by Taha Khan

13

How Waves Shape the World of Aviation



by Farhan Kamal Azeemi

15

A Journey towards the sky



by Editorial Team

18

Inside the Aircraft:



by Editorial Team

19

Aviation Exhibition Highlights



by Editorial Team

20

Quote



“ Once you have tasted flight,
you will forever walk the earth
with your eyes turned
skyward. ”

– Leonardo da Vinci

Next Stop: Space

A Scientific and Career-Oriented Perspective

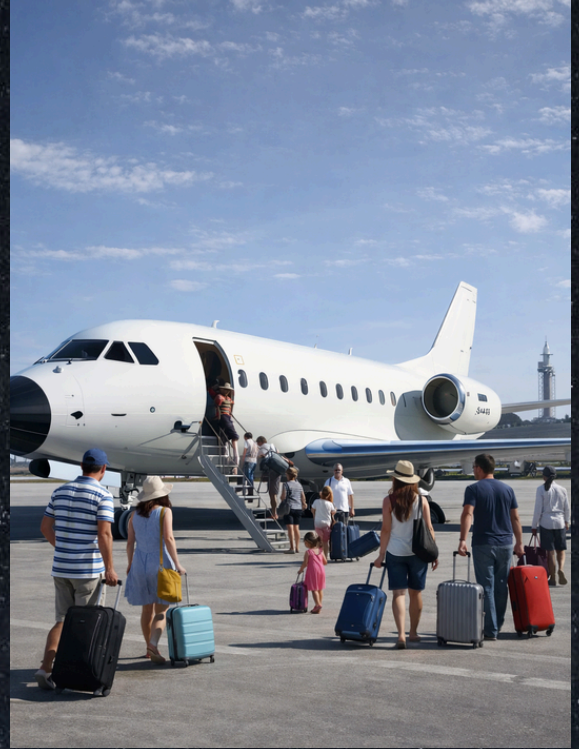
Space tourism is no longer a purely theoretical concept; it is rapidly emerging as a practical extension of the modern aviation and aerospace industry. In the early 1900s, people dreamed of flying within Earth's atmosphere. Now that this goal has been achieved, scientists are looking toward the sky with the ambition of flying beyond Earth's atmosphere.

Traditionally, aviation has focused on commercial air transport, flight operations, and aircraft engineering within Earth's atmosphere. However, technological advancements are now linking aviation with spaceflight operations and aerospace transportation systems. This transition represents a scientific evolution from aeronautics (the study of flight within Earth's atmosphere) to astronautics (the study of flight beyond the atmosphere). As space tourism continues to develop globally, aviation education and training systems must evolve to accommodate this transformation.

Importance of Space Tourism in Aviation:

- **Technological Development**

Space tourism is accelerating innovation in several aviation-related technologies. The development of reusable launch vehicles, advanced avionics systems, lightweight composite airframe materials, sophisticated Guidance, Navigation, and Control (GNC) systems, and thermal protection engineering has significantly advanced aerospace capabilities. These technologies are not limited to space missions; they also influence the future of high-speed aviation, hypersonic transport systems, and next-generation aircraft design. The crossover between aviation and astronautics is becoming increasingly evident as engineering solutions developed for space are adapted for atmospheric flight systems.



- ***Economic and Industry Impact***

Space tourism is creating a new and specialized sector within the global aerospace economy. This includes the establishment of commercial spaceports, expansion of flight training and simulation industries, growth in Maintenance, Repair, and Overhaul (MRO) services for advanced aerospace vehicles, and the development of aerospace safety and risk management systems. As private companies invest in suborbital and orbital flights, the integration between civil aviation infrastructure and aerospace manufacturing ecosystems becomes stronger. This economic diversification has the potential to generate high-skilled employment opportunities and attract international collaboration in aerospace research and development.

- ***Safety and Operational Evolution***

As aviation expands toward spaceflight operations, new regulatory and operational frameworks are required. Airspace integration between conventional aircraft and spacecraft presents complex air traffic management challenges, particularly during launch and re-entry phases. Additionally, human spaceflight safety standards, autonomous flight systems, and advanced Crew Resource Management (CRM) principles must evolve to address the unique risks of space tourism. These developments are influencing global aviation safety systems and encouraging international cooperation between aviation authorities and space agencies.

Aviation and Space Education in Pakistan

Although space tourism remains in its early stages globally, Pakistan has established institutions that provide academic foundations in aviation, aerospace engineering, and space sciences. Institute of Space Technology offers specialized programs in aerospace engineering, avionics engineering, and space sciences, contributing significantly to Pakistan's aerospace research capacity. University of Karachi, through its Institute of Space Science and Technology (ISST), provides education in space science and satellite-related studies. University of the Punjab includes academic programs related to space science and physics that support aerospace development. College of Aeronautical Engineering plays a major role in aeronautical engineering education, particularly in aircraft design and maintenance training. Furthermore, SUPARCO regularly organizes seminars, workshops, World Space Week activities, and technical training programs. These initiatives promote awareness of emerging aerospace technologies and help students understand future directions in aviation and space systems. These institutions collectively provide programs in aerospace engineering, avionics engineering, satellite communication, aeronautical engineering, and space sciences, forming a strong academic base for students interested in advanced aerospace careers.

Education for Aviation and Space Careers

Students interested in aviation and future space tourism industries should prioritize foundational disciplines such as aeronautical engineering, aerospace engineering, avionics engineering, aircraft maintenance engineering, and flight operations management. These fields build the technical understanding required for both atmospheric and suborbital systems.

For those aiming specifically at space-related careers, subjects such as orbital mechanics, rocket propulsion, spacecraft systems engineering, astrodynamics, and satellite communication systems are essential. These areas provide theoretical and practical knowledge necessary for understanding spacecraft trajectories, propulsion physics, and mission design.

In addition to formal academic programs, supporting technical skills significantly enhance employability. Proficiency in Computer-Aided Design (CAD) for aircraft structures, programming languages such as Python and MATLAB for aerospace simulations, artificial intelligence applications in aviation systems, flight simulation training, and drone/UAV operations are increasingly valuable in the modern aerospace workforce.

“Education is the launchpad to the stars.”



The Future Direction of Aviation

To adapt to the rise of space tourism, the aviation sector must strategically expand toward aerospace integration. This includes incorporating astronautics and space systems into aviation education curricula, investing in propulsion and flight systems research, planning hybrid airport–spaceport infrastructure, and prioritizing sustainable aerospace engineering practices. However, financial constraints and regulatory readiness remain major challenges for developing countries entering this sector.

The aviation industry is gradually transforming into a broader aerospace transportation ecosystem. Space tourism represents a logical next stage in this evolution, moving from traditional runway-based transportation toward integrated aerospace mobility systems.

For students in Pakistan, combining aviation education with aerospace engineering and space science can open significant opportunities in the global aerospace sector. Those who begin preparing now through rigorous scientific education and technical skill development will be well-positioned to contribute to the next generation of aerospace innovation.



About the Author:

Farhan Kamal Azeemi is a student of Diploma in Aviation and Business Management (DABM) and the editor and founder of The Aviator's Review at AIM, with a strong passion for aviation and a dream of becoming an Air Traffic Controller (ATC). Alongside his aviation studies, he enjoys writing and sharing insights about the aviation industry.

Aviation Management: A Catalyst for Economic Growth in Developing Countries like Pakistan

The Discipline of Aviation Management

Aviation Management, as a discipline, plays a crucial role in shaping the growth and development of the aviation sector, which in turn has a profound impact on a country's economy. This article aims to highlight the significance of Aviation Management, particularly for developing nations like Pakistan. We will explore the relationship between the growth in aviation and the economy of a country, emphasizing the reciprocal nature of this relationship. Additionally, we will shed light on the importance of obtaining certifications in Aviation Management from reputable institutions like Embry-Riddle Aeronautical University.

Aviation and Economic Growth:

The impact of air transport on the economy is two-fold: direct effects through aviation sector activity and indirect effects through improved access to resources, markets, technology, and economic mass. Studies have shown that a strong aviation sector can lead to increased spending and generate wider economic benefits, stimulating economic growth.



According to *Air Transport & Economic Growth*, by Zhang and Graham (2019), the reciprocal causal relationship between air transport and economic performance is particularly pronounced in less developed economies like Pakistan. Developing countries often face infrastructure challenges and limited access to markets and resources. A well-developed aviation industry can act as a catalyst for economic growth by enhancing connectivity, trade, and tourism. Improved air connectivity facilitates the movement of goods and services, attracting foreign investments, and boosting tourism, all of which contribute to economic development.

The Importance of Aviation Management:

Aviation Management plays a pivotal role in ensuring the efficient and safe operation of the aviation industry. It involves strategic planning, resource management, regulatory compliance, and maintaining high safety standards. In countries like Pakistan, where the aviation sector is rapidly expanding, competent Aviation Management professionals are essential to steer the industry towards sustainable growth. Effective Aviation Management helps in optimizing operations, reducing costs, and enhancing the overall performance of aviation organizations. It ensures that airports, airlines, and related businesses are managed efficiently, leading to improved services and customer satisfaction. Additionally, well-managed aviation enterprises attract more investors, fostering a positive economic environment.

Reputable Institutions and Certifications:

Obtaining certifications in Aviation Management from renowned institutions like Embry-Riddle Aeronautical University can significantly enhance the skills and knowledge of professionals in the industry. Embry-Riddle Aeronautical University is globally recognized for its comprehensive and specialized aviation education programs. The university equips individuals with the necessary expertise to tackle the challenges of a dynamic aviation landscape.

Certifications from reputable institutions not only demonstrate a candidate's commitment to professional development but also assure employers of their competence and expertise. These certifications can open doors to higher positions and better career opportunities, contributing to the growth of the aviation industry in Pakistan.

Aviation Management the Growth Driver:

Aviation Management is a vital discipline that drives the growth of the aviation sector and, consequently, the economy of a country. In developing countries like Pakistan, where the aviation industry is of paramount importance in fostering economic development, effective Aviation Management becomes even more crucial. As the aviation sector in Pakistan continues to expand, it is essential to invest in skilled professionals who can effectively manage and lead this growth. Pursuing certifications from reputable institutions like Embry-Riddle Aeronautical University can be a stepping-stone towards a prosperous future for Pakistan's aviation industry.



About the Author:

Dr. Wali Mughni, PhD, FRAeS, SBT, is CEO and Chairman of AIM, a retired fighter pilot, and recipient of the Sher Afghan (Top Gun) title and Sitara-e-Basalat. With over 40 years of experience in aviation and education, he leads AIM in shaping the next generation of aviation professionals.

Awareness of the Aviation Field in Pakistan

Awareness for the Aviation field in Pakistan.

Even Pakistan being the second largest economy state in South Asia with a large population that exceeds 257 million and still growing, its economic structure is something to be very concerned about over the decades the world has seen its constant course in downfall. In contrast to this all is not yet lost its other sectors, specifically its service sector has been in a flow of growth despite the manifold challenges it has been facing over the past two decades, because of this the economy is progressively moving in a higher and sustainable growing path and it has been on a constant path for a while now. Thanks to the international market Pakistan has a somewhat solid chance to sustain its major concern regarding growth in revenue.

Pakistan's Style, Glamour and Charisma

Pakistan's Aviation Industry was once considered one of the most luxurious airliners in the world because of its Style,

Glamour and Charisma, at one point in time Pakistan International Airlines was named 'Number One airliner' in the world and it has played a major role in the growth of the aviation industry. Because of Pakistan's Aviation Industry other airlines such as Emirates, Air Malta, and other airliners. Because of its history and past reputation in the field of aviation, Pakistan aviation sector is now being described as a 'Sleeping giant' which is ironic considering its economic status and yet despite all of this there is still hope, it needs to wake up and take the new and possible potential opportunities before it's too late.

Other countries have stated, "Despite Pakistan being the fifth most populous country across the globe, the country's domestic market performs poorly in terms of available domestic seats divided by the population." This statement is not far from the truth Pakistan aviation industry needs to capture every single opportunity that is representing itself, there are no other options available or hoping for a better tomorrow cliché wake up, buckle up and start move forward, take all it can.

Aviation Industry a Comeback

Before the pandemic only three of Pakistan's top ten international routes were offering their optimal capacity as a low-cost carrier service. Most of its routes included Gulf countries like, UAE, Bahrain, Saudi Arabia, Qatar, Oman, Kuwait) still as a low-cost carrier not as a 'potential giant' it could be. Pakistan airline industry has so much potential to growth and generate its popularity in the world of airliners that it's like a 'sitting duck' in the market if nothing changes, other airliners are going to keep on rise up like the 'endless sky' Pakistan airline industry needs to release this as soon as possible. However relying only on our international market it won't change the issues the country is facing until unless something changes, something major a whole new pattern, a total game changer, but unfortunately until unless we realize our own potential and worth in the world we won't excel in anything any time soon. One of the major issues regarding 'not realizing its potential' is the fact people of Pakistan do not know its potential at all. Despite the so called 'evolution' in the education sector, major populous do not know the 'gold mine' Pakistan's airline industry has to offer. The lack of self-awareness is heart breaking, Pakistan's airline industry can still provide so much revenue and job opportunities that it's 'rusting away to dust' people are concern with more immediate results instead of long term planning which Pakistan's aviation industry has the potential to provide. Despite all the controversy Pakistan's Aviation Industry is still standing.



About the Author

Taha Khan is a lecturer at the Aviation Institute of Management, committed to educating future aviation professionals.

His life philosophy: If I don't have to, I won't go. If I have to, I'll do it quickly. On knowledge, he believes: "The ink is black, but the words are not."

How Waves Shape the World of Aviation

Allah says in the Holy Qur'an:

أَوْ كَظُلُمَاتٍ فِي بَحْرٍ لُّجِّيٍّ يَغْشَاهُ مَوْجٌ مِّنْ فَوْقِهِ مَوْجٌ مِّنْ فَوْقِهِ سَحَابٌ

(Qur'an 24:40)

"Or [they are] like darkneses within an unfathomable sea which is covered by waves, upon which are waves, over which are clouds..."

— Sahih International

This verse describes layers of waves — waves in the sea, waves above them, and clouds above those waves. Modern science confirms that waves exist everywhere in nature, not just in oceans. They appear in the air we fly through, in the vibrations of materials, and even in the invisible signals that guide aircraft. For aviation students, understanding waves is not just theoretical — it is the key to understanding how aircraft move, communicate, and remain safe. Waves are a bridge between the natural world, the science of flight, and the technologies that make aviation possible.

What Is a Wave?

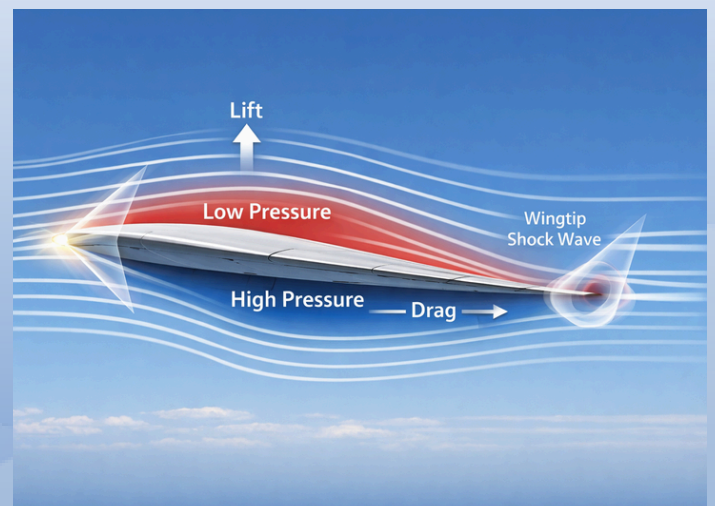
A wave is a way for energy to travel from one place to another. The particles of a medium, like air, water, or solid, move back and forth but do not travel with the wave. Instead, the energy moves through them in a particular direction.

In aviation, waves play a crucial role from air flowing over wings to signals connecting pilots with air traffic control. Understanding waves helps students understand how lift is created, how aircraft communicate, and how structures remain strong under stress. In aviation we have four types of waves.

Waves in Aerodynamics

Air is a compressible fluid, meaning it can transmit pressure disturbances. When an aircraft moves through the atmosphere, it generates different aerodynamic wave effects.

Engines and propellers generate acoustic waves, which are sound waves that travel through the air and allow us to hear the aircraft. As the aircraft pushes forward, it generates pressure disturbances around the wings and fuselage; these small pressure changes are responsible for producing lift and also contribute to drag. At higher speeds, when airflow locally reaches the speed of sound, this generates shock waves, which are sudden and sharp increases in pressure. Shock waves increase drag and, in supersonic flight, produce the well-known sonic boom.



Electromagnetic Waves in Aviation

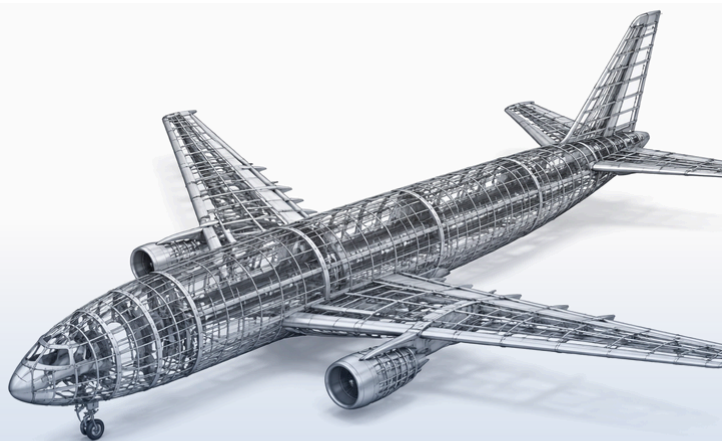
Modern aviation relies fundamentally on electromagnetic (EM) waves, which unlike mechanical waves, can travel through empty space without needing a physical medium. These invisible waves are the backbone of almost every aspect of flight operations. Aircraft use EM waves for radio communication, enabling pilots and Air Traffic Control to exchange crucial navigation and weather instructions in real time. Radar systems depend on EM waves to detect other aircraft, track weather formations, and ensure safe flight paths. GPS signals, another form of EM waves, provide precise positioning and navigation, guiding aircraft across different continents and oceans with remarkable accuracy. Beyond this, satellite communication and weather monitoring systems also rely on electromagnetic waves, helping airlines plan routes efficiently, avoid turbulence, and respond quickly to changing conditions. Without the constant flow of EM waves, global aviation as we know it safe, efficient, and interconnected would be impossible.



Standing Waves and Structural Safety

Standing Waves and Structural Safety

In aircraft engineering, waves aren't just in the air, they also occur inside the aircraft structure itself. When parts of an airplane vibrate, they generate mechanical waves within the materials. If these vibrations happen to match the natural frequency of a component, standing waves and resonance can form, potentially causing structural damage over time. To prevent this, engineers carefully design critical parts like wings, engine blades, and fuselage sections to avoid dangerous resonance conditions and to be slightly flexible, allowing them to absorb and dissipate vibrations safely. Using vibration testing and advanced computer simulations, they ensure that aircraft can withstand these wave effects while maintaining both structural integrity and passenger safety. This precise wave management is a key part of modern aviation engineering.



"Did you know?

Airplane wings are designed to be flexible and can bend up to approximately 20° during flight, helping them handle aerodynamic forces and prevent structural damage."

Atmospheric Waves and Aviation Weather

Not all air movement is simply wind. In the atmosphere, some disturbances behave like waves, carrying energy through the air. Examples include mountain waves, gravity waves, turbulence patterns, and wind shear disturbances. These atmospheric waves can influence aircraft stability, climb performance, and landing safety.

For instance, mountain waves formed when strong winds pass over mountains can create powerful updrafts and downdrafts. Similarly, turbulence and gravity waves may cause sudden changes in airflow that pilots experience as bumps during flight. Because of this, pilots must understand how these wave patterns form and behave in order to plan safe flights. Aviation meteorology studies these atmospheric wave systems to improve flight safety and efficiency.



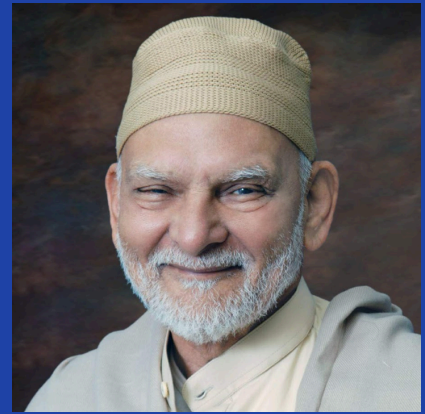
Conclusion

So, waves play a very vital role in aviation. Without aerodynamic waves, aircraft cannot fly. Understanding aerodynamic waves helps pilots understand different phenomena that occur during flight, such as sudden increases in drag, sonic booms, stalls, and other aerodynamic effects.

At the same time, electromagnetic waves form the backbone of communication and navigation in aviation. Every radio signal between pilots and air traffic control, radar systems, and GPS navigation depends on these waves. Without electromagnetic communication and navigation, modern aviation would not be possible.

Waves are also important in aircraft structures. Mechanical vibrations inside aircraft components can produce standing waves, and if these vibrations reach resonance, they can damage parts of the aircraft. That is why engineers carefully design and test aircraft structures to ensure they can withstand these vibrations safely. In addition, atmospheric waves such as mountain waves, gravity waves, turbulence patterns, and wind shear can affect aircraft stability and flight performance. Understanding these atmospheric wave phenomena helps pilots plan safer flights and respond properly to changing weather conditions.

Therefore, the study of waves helps aviation students understand not only the science behind flight, but also the engineering, communication, and atmospheric conditions that make safe and efficient aviation possible.



Intellectual Inspiration

This article is written by Farhan Kamal Azeemi under the intellectual influence of Khawaja Shamsuddin Azeemi, a renowned Pakistani Sufi scholar and author of more than 50 books and over 70 pamphlets. He responded to more than 2,000,000 letters from readers seeking spiritual guidance. In his teachings, he often encouraged observing the universe carefully, explaining that creation is filled with patterns, vibrations, and subtle waves that reflect deeper realities. Inspired by his approach of observing creation through both spirituality and knowledge, this article attempts to connect scientific concepts with a deeper understanding of the universe.

A young boy with curly hair, wearing a blue t-shirt, is holding a red biplane with both hands. He is looking up at the plane with a joyful expression. The background is a clear blue sky with some light clouds. The title 'A Journey towards the sky' is written in large, white, sans-serif font across the upper part of the image.

A Journey towards the sky

Late at night, Ali woke up and looked outside the window. The sky was clear, sparkling with countless stars. Since childhood, he had been fascinated by aviation. Every time an aircraft flew across the sky, he imagined himself in the cockpit, guiding the plane through the clouds.

In his dream, Ali found himself standing at a busy airport. A large jet was ready for departure, passengers boarding through the gate, while the cabin crew welcomed them with warm smiles. Soon, Ali was seated in the cockpit, surrounded by glowing flight instruments. He could see the control panel, altimeter, and navigation systems in front of him. A voice came through the radio:

"Contact Air Traffic Control (ATC) for departure clearance."

The aircraft began moving along the taxiway toward the runway. Ali gently pushed the throttle forward, and the jet engines roared to life. The plane accelerated and lifted into the air—a perfect takeoff.

After climbing to cruising altitude, Ali activated the autopilot system. The aircraft continued smoothly according to the flight plan, guided by navigation systems. From above, the world looked calm and peaceful.

Suddenly, the control tower instructed him to prepare for descent. Ali carefully guided the plane downward. The wings remained steady despite light turbulence, and within moments, the aircraft touched down safely—a smooth landing.

Ali woke up with a smile. He knew that aviation was not just about flying; it required training, discipline, technical knowledge, and responsibility. One day, he hoped to stand inside a real cockpit and turn this dream into reality.

By Editorial Team.

Dreaming of a career in aviation?

AIM trains pilots, ATC professionals, cabin crew, aviation managers, and more. With teaching from top industry experts and experienced instructors like Dr. Wali Mughni and Mr. Azeez Siddiqui, students gain hands-on experience with VR simulators, airport visits, and real industry exposure.

Through AIM's partnership with Embry-Riddle Aeronautical University (ERAU), students can earn internationally recognized aviation education while building strong industry connections.

Join now and start your journey to the skies!

Inside the Aircraft:

Boeing 787 Dreamliner



Quick Facts

- **Manufacturer:** Boeing
- **First Flight:** 2009
- **Entered Service:** 2011
- **Typical Capacity:** 242–335 passengers
- **Range:** ~14,000 km
- **Cruising Speed:** ~903 km/h (Mach 0.85)

Why it's special

- *Uses composite materials instead of traditional aluminum, making it lighter and more fuel-efficient.*
- *Known for its large dimmable windows — the biggest on any commercial airliner.*
- *Wings are designed to flex upward during flight, improving aerodynamics and efficiency.*
- *Consumes about 20% less fuel compared to older aircraft in the same category.*

Fun Fact

The wings of the Boeing 787 can flex upward by more than 5 meters during flight, helping the aircraft handle turbulence more smoothly.

Aviation Exhibition Highlights





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GRADE 6 TO 8

SECONDARY SECTION



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<https://aviators.pk/>



CILT House, 2B Palace Rd
Block 6, Gulistan-e Jauhar
Karachi

+92 3330866166
+92 3043341154

LET YOUR IDEAS TAKE FLIGHT

Every student carries ideas, stories, and perspectives that deserve to be shared. The Aviator's Review provides you with a platform to turn your thoughts into impact. Whether your passion lies in aviation, innovation, or creative expression, your voice can inspire others and contribute to a growing community of future leaders.

By writing for our magazine, you not only showcase your talent but also develop confidence, communication skills, and a deeper understanding of the aviation world. This is your opportunity to be heard, to stand out, and to take your first step into a larger journey. So don't hesitate! write, express, and let your ideas take flight.

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