

The Speed Of Sound Breaking The Barriers Between Music And Technology A Memoir

Read about the sound barrier, how people broke it, and why breaking it was important.

Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations, this book is integrated with APlusPhysics.com website, which includes online questions and answer forums, videos, animations, and supplemental problems to help you master Regents Physics Essentials.

Based on a 15-year successful approach to teaching aircraft flight mechanics at the US Air Force Academy, this text explains the concepts and derivations of equations for aircraft flight mechanics. It covers aircraft performance, static stability, aircraft dynamics stability and feedback control.

You're educated and ambitious. Sure, the hours are long and corporate politics are a bane, but you focus on getting the job done, confident that you will be rewarded in the long run. Yet, somehow, your hard work isn't paying off, and you watch from the sidelines as your colleagues get promoted. Those who make it to management positions in this intensely competitive corporate environment seem to understand an unwritten code for marketing and aligning themselves politically. Furthermore, your strong work ethic and raw intelligence were sufficient when you started at the firm, but now they're expecting you to be a rainmaker who can "bring in clients" and "exert influence" on others. The top of the career ladder seems beyond your reach. Perhaps you've hit the bamboo ceiling. For the last decade, Asian Americans have been the fastest growing population in the United States. Asians comprise the largest college graduate population in America, and are often referred to as the "Model Minority" - but they continue to lag in the American workplace. If qualified Asians are entering the workforce with the right credentials, why aren't they making it to the corner offices and corporate boardrooms? Career coach Jane Hyun explains that Asians have not been able to break the "bamboo ceiling" because many are unable to effectively manage the cultural influences shaping their individual characteristics and workplace behavior—factors that are often at odds with the competencies needed to succeed at work. Traditional Asian cultural values can conflict with dominant corporate culture on many levels, resulting in a costly gap that individuals and companies need to bridge. The subtle, unconscious behavioral differences exhibited by Asian employees are often misinterpreted by their non-Asian counterparts, resulting in lost career opportunities and untapped talent. Never before has this dichotomy been so thoroughly explored, and in this insightful book, Hyun uses case studies, interviews and anecdotes to identify the issues and provide strategies for Asian Americans to succeed in corporate America. Managers will learn how to support the Asian members of their teams to realize their full potential and to maintain their competitive edge in today's multicultural workplace.

Hallion describes the basic problems of supersonic flight, looking at Geoffrey de Havilland's fatal attempt to break the sound barrier in 1946, Chuck Yeager's successful flight in 1947, and the first aircraft to reach twice the speed of sound

My Car-Crashing, Plane-Jumping, Bone-Breaking, Death-Defying Hollywood Life

Discovering the Brain

Real Science, Great Hacks, and Good Food

The X-planes

Aplusphysics

Breaking the Sound Barrier: The Story of Chuck Yeager

For a long time, aviation experts and pilots thought aircraft couldn't fly faster than the speed of sound. They believed there was a point where the plane and pilot would just explode! They called it the sound barrier. In 1947, Chuck Yeager proved that to be untrue, and in 2012, a skydiver broke the sound barrier without a plane to fly in! From the challenges of airplane technology to daredevil parachutists, the story of breaking the sound barrier is one that will have readers on the edge of their seat. Full-color images and detailed sidebars take history to new heights.

Enhanced by more than one hundred historical photographs, chronicles the development of the Bell X-1 aircraft, the craft in which a young test pilot named Chuck Yeager broke the sound barrier on October 14, 1947, detailing the development of the technolog

In a compendium of reminiscences, photographs, and experts' discussions, the surviving participants in the development and flying of the Bell X-1 rocket plane that broke the sound barrier in 1947 recount their experiences. 17,500 first printing.

The sole survivor on a desperate, last-chance mission to save both humanity and the earth, Ryland Grace is hurtled into the depths of space when he must conquer an extinction-level threat to our species.

The autobiography of one of the greatest pilots in history. In 1939 Eric Brown was on a University of Edinburgh exchange course in Germany, and the first he knew of the war was when the

Gestapo came to arrest him. They released him, not realising he was a pilot in the RAF volunteer reserve: and the rest is history. Eric Brown joined the Fleet Air Arm and went on to be the greatest test pilot in history, flying more different aircraft types than anyone else. During his lifetime he made a record-breaking 2,407 aircraft carrier landings and survived eleven plane crashes. One of Britain's few German-speaking airmen, he went to Germany in 1945 to test the Nazi jets, interviewing (among others) Hermann Goering and Hanna Reitsch. He flew the suicidally dangerous Me 163 rocket plane, and tested the first British jets. WINGS ON MY SLEEVE is 'Winkle' Brown's incredible story.

The Inside Story of the Land Speed Record in the Sixties

The World's Greatest Test Pilot tells his story

Your Guide to Regents Physics Essentials

Yeager

Chasing the Demon

Sound Barrier

In the explosive finale to the epic romantic saga, Bella has one final choice to make. Should she stay mortal and strengthen her connection to the werewolves, or leave it all behind to become a vampire? When you loved the one who was killing you, it left you no options. How could you run, how could you fight, when doing so would hurt that beloved one? If your life was yours to give, how could you not give it? If it was someone you truly loved? To be irrevocably in love with a vampire is both fantasy and nightmare woven into a dangerously heightened reality for Bella Swan. Pulled in one direction by her intense passion for Edward Cullen, and in another by her profound connection to werewolf Jacob Black, a tumultuous year of temptation and inner strife have led her to the ultimate turning point. Her imminent choice to either join the dark but seductive world of immortals or to pursue a fully human life has become the thread that ties the fates of two tribes hangs. This astonishing, breathlessly anticipated conclusion to the Twilight Saga illuminates the secrets and mysteries of this spellbinding romantic epic. It's the bestselling author Stephenie Meyer makes a triumphant return to the world of Twilight with the highly anticipated companion, Midnight Sun: the iconic love story of Bella and Edward from the vampire's point of view. "People do not want to just read Meyer's books; they want to climb inside them and live there." -- Time "A literary phenomenon." -- The New York Times **NATIONAL BESTSELLER** • At the end of World War II, a band of aces gathered in the Mojave Desert on a Top Secret quest to break the sound barrier—nicknamed "The Demon" by pilots. The true story of what happened in those skies has never been told. Speed. In 1947, it represented the difference between victory and annihilation. After Hiroshima, the ability to reach a nuclear device to its target faster than one's enemy became the singular obsession of American war planners. And so, in the earliest days of the Cold War, a highly classified program was conducted on a desolate air base in California's Mojave Desert. Its aim: to push the envelope of flight to new frontiers. There gathered an extraordinary band of pilots, including some of the best World War aces Chuck Yeager and George Welch, who risked their lives flying experimental aircraft to reach Mach 1, the so-called sound barrier, which pilots called "the demon." Shrouded in secrecy, the US military reluctantly revealed that the "barrier" had been broken two months later, after the story was leaked to the press. The full truth has never been revealed—until now. Chasing the Demon, from decorated fighter pilot and acclaimed aviation historian Dan Hampton, tells, for the first time, the extraordinary true story of mankind's first flight at Mach 1. Here, of course, is twenty-four-year-old Captain Chuck Yeager, who made history flying the futuristic Bell X-1 faster than the speed of sound on October 14, 1947. Officially, Yeager was the first to achieve supersonic flight, but drawing on new interviews with survivors of the program, including Yeager's former commander, as well as declassified files, Hampton provides evidence that a fellow American—George Welch, a daring fighter pilot who shot down a remarkable sixteen enemy aircraft during the Pacific War—met the demon first, though he was not favored to wear the laurels, as he was now a civilian test pilot and was not flying the Bell X-1. Chasing the Demon sets the race between Yeager and Welch in the context of aviation history so that the reader can learn and appreciate their accomplishments as never before.

Offers an illustrated encyclopedia of general science, with informative and fun facts on a broad array of scientific topics.

For the 119 species of marine mammals, as well as for some other aquatic animals, sound is the primary means of learning about the environment and of communicating, navigating, and foraging. The possibility that human-generated noise could harm marine mammals or significantly interfere with their normal activities is an issue of increasing concern. Noise and its impacts have been regulated since the passage of the Marine Mammal Protection Act of 1972. Public awareness of the issue escalated in the 1990s when researchers began using hydrophones and sound to measure ocean climate changes. More recently, the stranding of beaked whales in proximity to Navy sonar use has again put the issue in the spotlight. Ocean Noise and Marine Mammals reviews sources of noise in the ocean environment, what is known of the responses of marine mammals to acoustic disturbance, and what models exist for describing individual and marine mammal responses. Recommendations are made for future data gathering efforts, studies of marine mammal behavior and physiology, and modeling efforts necessary to determine what the long- and short-term impacts of ocean noise on marine mammals.

This NASA document provides a historic perspective of supersonic cruise technology, beginning with the early NACA supersonic research and including efforts during the B-70 and X-45 development phase. It also records technological progress made in the NASA SCR and VCE programs. Since every research result could not be detailed here, only the most critical technology is described and research findings are presented. NASA and its predecessor, the National Advisory Committee for Aeronautics (NACA), have participated since 1920 in efforts to develop the technology required for supersonic cruise flight. Preliminary work concentrated on developing rudimentary test facilities and methods that would permit the investigation of supersonic problems, accompanied by research for defining aircraft and propulsion concepts for flight at speeds greater than the speed of sound. These early investigations contributed to the development of the joint U.S. Air Force/Navy/Bell XS-1 airplane that was piloted on the first successful supersonic flight by Air Force Capt. Charles E. "Chuck" Yeager in 1947. Between 1956 and 1971, the research effort supported the USAF supersonic B-70 and commercial supersonic transport concepts. After neither of these programs resulted in a production aircraft because of

political problems, NASA was given the responsibility of establishing the technology base for a viable supersonic cruise airplane. This latter effort, known as the NASA Supersonic Cruise Research (SCR) program, was conducted from 1971 to 1981. The NASA Variable Cycle Engine (VCE) program, a propulsion offshoot of SCR, was conducted from 1976 to 1981.1
Introduction * 2 Setting The Stage For Supersonic Cruise Technology * The Sound Barrier * The First Supersonic Cruise Aircraft * The Next Logical Step * After the U.S. Supersonic Program * 3 NACA Preliminary Supersonic Cruise Technology (?-1956) * Mounting an Attack on the Sound Barrier * Breaking the Sound Barrier * 4 NACA/NASA Supportive Supersonic Cruise Technology (1956-1971) * The U.S. Air Force B-70 Bomber Program * The U.S. Supersonic Transport Program * 5 Foreign Supersonic Transport Programs * The Soviet TU-144 British/French Concorde * 6 Lessons Learned In Pre-1972 Supersonic Cruise Experience * The Military/Commercial Difference * A Successful SST Will Permit Little Room for Design Compromise * The Value of Focused Technology Efforts * U.S. Technology Subsidization * Evolution of an Acceptable SST Will Be Difficult * Perceptions of a "Rampant" Technology Summary of Lessons Learned * 7 Supersonic Cruise Problems And Potential * Technical Problems * Environmental Problems * Supersonic Cruise Potential * 8 Pursuing The Problem Potential Of Supersonic Cruise Flight: THE NASA SCR and VCE Programs * Objectives and Rationale of the NASA SCR Program Organization and Elements of the NASA SCR Program Alterations to SCR Program Structure * Dissemination of SCR Technical Information * Scope of NASA SCR Program * 9 Progress In Supersonic Cruise Technology Since 1972 * Progress In Environmental Issues * Progress in Aerodynamics * Progress in Structures and Materials * Progress in Propulsion * Progress in Configuration Concepts/Integration * Summary of Progress 10 Supersonic Cruise Technology Before (1971) And After (1982) The NASA SCR and VCE Programs * Comparisons * Possible Ramifications of SCR and VCE Technology * 11 Future Directions Of Supersonic Cruise Research

The Race to Build the First Time Machine

Advancements and Breakthroughs in Ultrasound Imaging

The Personal Story of America's Pioneering Experimental Test Pilot

Breaking the Time Barrier

The Geese, the Glide, the Miracle on the Hudson

The Story of Spaceflight before NASA

The bestselling author of The Mozart Effect taps cutting-edge science to show how we can use sound to improve our lives and achieve our goals. Based on over a decade of new research, Don Campbell, bestselling author of The Mozart Effect, and Alex Doman, an expert in the practical application of sound and listening, show how we can use music-and silence-to become more efficient, productive, relaxed, and healthy. Each chapter focuses on a single aspect of everyday life, providing advice, exercises, wide-ranging playlists, and links so readers can use the music they love to create the perfect soundtrack for any goal or task. Also included are "Sound Profiles"-brief stories showing how real people creatively tap the power of sound to improve their own and others' lives. Inspiring, practical, and truly enjoyable, Healing at the Speed of Sound opens the door to a fuller, richer, and much more harmonious life.

Presents recipes ranging in difficulty with the science and technology-minded cook in mind, providing the science behind cooking, the physiology of taste, and the techniques of molecular gastronomy.

Feature chronicles the breaking of the sound barrier by pilot Chuck Yeager, on October 14, 1947. Includes photos of Yeager, of Larry Bell, and of the Mach 1 flight crew. Includes a biography of Yeager, 3-D cutaway view of the Bell X-1 aircraft, an illustration of the X-1 cockpit, video of pilot emerging from the cockpit of the X-1, resources and links.

Having come from Mexico to California ten years ago, fourteen-year-old Francisco is still working in the fields but fighting to improve his life and complete his education.

Discusses defining moments in American history.

Breaking the Chains of Gravity

Speed Duel

Breaking Cover

An Autobiography

Ocean Noise and Marine Mammals

Stuntman!

In this propulsive thriller, one of the most ingenious young men in the world has also become the most dangerous...or has he? Harmony House is more than a "special people." It's a think tank where high-functioning autistic savants harness their unique abilities for the benefit of society. Resident Eddie Parks's contribution is nothing extraordinary: an "echo box" that can re-create never-recorded sounds using acoustic archeology. All Eddie wants is to hear his late mother's voice. But what he's created inadvertently posing a threat to national security. To Harmony House's shadowy government backers and radical extremists, the echo box is the ultimate intelligence the very concept of secrecy. Now for Eddie and the compassionate Dr. Skylar Drummond, the true nature of the institution is becoming chillingly clear. As ruthless forces close in on Eddie and his miraculous machine, Skylar risks all to take him on the run. Because once that prize is won, Eddie Parks will no longer be considered a "special

dangerous redundancy. An inconvenient echo that must be silenced.

Ultrasonic imaging is a powerful diagnostic tool available to medical practitioners, engineers and researchers today. Due to the relative safety, and the non-invasive nature of the technology, ultrasonic imaging has become one of the most rapidly advancing technologies. These rapid advances are directly related to the parallel advancements in electronics, computing, and telecommunications technology together with sophisticated signal processing techniques. This book focuses on state of the art developments in ultrasonic imaging applications and underpinned by leading practitioners and researchers from many parts of the world.

Chuck Yeager loved to fly. His determination led him to be a fighter and test pilot. He flew as often as he could in any craft he could. Eventually, he became the expert on high speed aircraft. He knew just what each plane could do, and more importantly, what it couldn't. As important as knowing how far he could push a plane, he also knew when to stop. His pioneering efforts in breaking the sound barrier made modern aviation and space exploration possible.

"Rhoades belongs on the same reading list with Stephen Hunter, Lee Child, and Randy Wayne White." —Booklist From the acclaimed, award-nominated author of the Jack Reacher thriller series comes an explosive new novel about an undercover federal agent, a chameleon whose specialty is assaulting criminal organizations from within. He was once a top undercover agent in FBI history, until he dropped completely off the grid, and hasn't been heard from in years. Did he go native, or was he discovered and killed? When he is finally driven out into the open, torn from deep cover during the rescue of two kidnapped children, he becomes the number one target of both the vicious biker gang and a massive Federal manhunt. But Tony's tired of being the hunted, and as both the gang and a traitorous FBI agent converge on a small southern town, they're all about to learn a hard lesson: When the Wolf breaks cover, he doesn't always run away. Sometimes he comes straight at your throat. J.D. Rhoades has written his most compelling thriller yet. A pulse-pounding novel that leaps off the page and will leave readers begging for more.

NASA's history is a familiar story, one that typically peaks with Neil Armstrong taking his small step on the Moon in 1969. But America's space agency wasn't created overnight. It was assembled from pre-existing parts, drawing together some of the best minds the non-Soviet world had to offer. In the 1930s, rockets were all the rage in Germany, with scientists hoping to fly into space and of the German armed forces, looking to circumvent the restrictions of the Treaty of Versailles. One of the key figures in this period was Wernher von Braun, an engineer who designed the rockets that became the devastating V-2. As the war came to its chaotic conclusion, von Braun escaped from the ruins of Germany and was taken to America where he began developing missiles for the US Army. Meanwhile, the US Air Force was looking ahead to a time when men would fly in space, and the Navy's Project Mercury and the Army's Nike program were flying cutting-edge, rocket-powered aircraft in the thin upper atmosphere. Breaking the Chains of Gravity tells the story of America's nascent space program, its scientific advances, its personalities and the rivalries it caused between the various arms of the US military. At this point getting a man in space became a national obsession, leading to the creation of the National Aeronautics and Space Administration, otherwise known as NASA.

Introduction to Aircraft Flight Mechanics

American Intelligence in the Age of Terror

The Rocky Road to MACH 1.0+

The Speed of Sound

Breaking Point

Healing at the Speed of Sound

by Bill Gunston OBE This is the thrilling story of how test pilots in the USA and UK first pierced the sound barrier in the late 1940s. Much has happened since then, and as recently as 2003 thousands of fare-paying passengers were routinely enjoying intercontinental air travel at speeds of up to Mach 2. The author describes in an accessible style the rules and technologies of supersonic flight, ongoing developments in engine and airframe technology, the age of supersonic passenger transports like Concorde, and advances in supersonic fighter and bomber design. highly recommended Today's Pilot

The Speed of Sound Breaking the Barriers Between Music and Technology: A Memoir Macmillan

The classic no-holds-barred memoir from Hollywood's most legendary stuntman -- an inspiration for Brad Pitt's character Cliff Booth in Once Upon a Time in Hollywood -- is "full of incredible stories as told by a real man of action" (Arnold Schwarzenegger). Yep that's me, Hal Needham, on the cover doing a fire stunt. When you're on fire you don't dare breathe because if you do, you'll suck those flames right down your throat. I was Hollywood's highest paid stuntman so I should know. I wrecked hundreds of cars, fell from tall buildings, got blown up, was dragged by horses, and along the way broke 56 bones, my back twice, punctured a lung and knocked out a few teeth...I hung upside down by my ankles under a bi-plane in The Spirit of St. Louis, jumped between galloping horses in Little Big Man, set a world record for a boat stunt on Gator, jumped a rocket powered pick-up truck across a canal for a GM commercial, was the first human to test the car airbag-and taught John Wayne how to really throw a movie punch. Life also got exciting outside of the movie business. I had my Ferrari stolen right from under my nose, flew in a twin-engine Cessna with a passed out pilot, rescued the cast and crew from a Russian invasion in Czechoslovakia, and once took six flight attendants on a date. I owned the Skoal-Bandit NASCAR race team, the sound-barrier breaking Budweiser Rocket Car and drove a souped-up, fake ambulance in a "little" cross-country

race called The Cannonball Run, which became the movie I directed by the same name. Oh yeah, I also directed Smokey and the Bandit, Hooper and several other action/comedy movies that I liked a bunch. I was a sharecropper's son from the hills of Arkansas who became a Hollywood stuntman. That journey was a tough row to hoe. I continually risked my life but that was the career I chose. I was never late to the set and did whatever I had to do to get the job done. Hollywood's not all sunglasses and autographs. Let me tell you a few stories...

As the speed of early aircraft gradually increased there eventually became an awareness during the 1940's, that strange things were occurring at around 500mph. Many later WW2 fighter aircraft were reported to become dangerously uncontrollable in high-speed power dives. Pilot's and aircraft designers were beginning to encounter the sound barrier. We now realize it to be a phenomenon that occurs when the speed of sound is reached and air compressibility demands additional power to break through it. Breaking the sound barrier became one of the biggest challenges to the world's aircraft designers and it took great courage and daring for the test-pilots of that era to find the way through this difficult obstacle. This is the story of how innovative design and pilots learned how to deal with supersonic flight. It records the many different experimental aircraft and tells of the experiences of those that flew them. Many pilots lost their lives during those dangerous flights but those who survived became legendary.

On January 15, 2009, a US Airways Airbus A320 had just taken off from LaGuardia Airport in New York when a flock of Canada geese collided with it, destroying both of its engines. Over the next three minutes, the plane's pilot, Chesley "Sully" Sullenberger, managed to glide it to a safe landing in the Hudson River. It was an instant media sensation, the "Miracle on the Hudson," and Captain Sully was the hero. But how much of the success of this dramatic landing can actually be credited to the genius of the pilot? To what extent is the "miracle" on the Hudson the result of extraordinary—but not widely known, and in some cases quite controversial—advances in aviation and computer technology over the past twenty years? In Fly by Wire, one of America's greatest journalists takes us on a strange and unexpected journey into the fascinating world of advanced aviation. From the testing laboratories where engineers struggle to build a jet engine that can systematically resist bird attacks, through the creation of the A320 in France, to the political and social forces that have sought to minimize the impact of the revolutionary fly-by-wire technology, William Langewiesche assembles the untold stories necessary to truly understand the "miracle" on the Hudson, and makes us question our assumptions about human beings in modern aviation.

Atom Smashing, Food Chemistry, Animals, Space, and More!

Breaking the Sound Barrier

Boys' Life

Science Encyclopedia

Project Hail Mary

The Story of Supersonic Flight

Boys' Life is the official youth magazine for the Boy Scouts of America. Published since 1911, it contains a proven mix of news, nature, sports, history, fiction, science, comics, and Scouting.

The brain ... There is no other part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In Discovering the Brain, science writer Sandra Ackerman cuts through the complexity to bring this vital topic to the public. The 1990s were declared the "Decade of the Brain" by former President Bush, and the neuroscience community responded with a host of new investigations and conferences. Discovering the Brain is based on the Institute of Medicine conference, Decade of the Brain: Frontiers in Neuroscience and Brain Research. Discovering the Brain is a "field guide" to the brain--an easy-to-read discussion of the brain's physical structure and where functions such as language and music appreciation lie. Ackerman examines How electrical and chemical signals are conveyed in the brain. The mechanisms by which we see, hear, think, and pay attention--and how a "gut feeling" actually originates in the brain. Learning and memory retention, including parallels to computer memory and what they might tell us about our own mental capacity. Development of the brain throughout the life span, with a look at the aging brain. Ackerman provides an enlightening chapter on the connection between the brain's physical condition and various mental disorders and notes what progress can realistically be made toward the prevention and treatment of stroke and other ailments. Finally, she explores the potential for major advances during the "Decade of the Brain," with a look at medical imaging techniques--what various technologies can and cannot tell us--and how the public and private sectors can contribute to continued advances in neuroscience. This highly readable volume will provide the public and policymakers--and many scientists as well--with a helpful guide to understanding the many discoveries that are sure to be announced throughout the "Decade of the Brain."

IT WAS ONLY A MATTER OF TIME.... Once widely considered an impossibility--the stuff of science fiction novels--time travel may finally be achieved in the twenty-first century. In Breaking the Time Barrier, bestselling author Jenny Randles reveals the nature of recent, breakthrough experiments that are turning this fantasy into reality. The race to build the first time machine is a fascinating saga that began about a century ago, when scientists such as Marconi and Edison and Einstein carried out research aimed at producing a working time machine. Today, physicists are conducting remarkable experiments that involve slowing the passage of information, freezing light, and breaking the speed of light--and thus the time barrier. In the 1960s we had the "space race." Today, there is a "time race" involving an underground community of working scientists who are increasingly convinced that a time machine of some sort is finally possible. Here, Randles explores the often riveting motives of the people involved in this quest (including a host of sincere, if sometimes misguided amateurs), the consequences for society should time travel become a part of everyday life, and what evidence might indicate that it has already become reality. For, if time travel is going to happen--and some Russian scientists already claim to have achieved it in a lab--then its effects may already be apparent.

'The secret to my success is that I always managed to live to fly another day.' General Chuck Yeager was the first man to fly faster than the speed of sound. He was also the World War II fighting ace who shot down a Messerschmitt jet with a prop-driven P-51 Mustang - Chuck Yeager is The Right Stuff. He first joined the US Air Force at eighteen, fresh from school, and by twenty-two had risen through the ranks on the wings

of his heroic exploits dogfighting over the flak-filled skies of Nazi Europe. But it was in 1947 that Yeager achieved worldwide recognition as the first test pilot to smash the sound barrier, flying the super-secret Bell X-1 despite cracked ribs from a riding accident. This was truly the Golden Age of Aviation, the exciting leap into the supersonic era - the daredevil, death-defying days of the true winged heroes. And Chuck Yeager was there every step of the way - fighting and winning.

The quest for the land speed record in the 1960s and the epic rivalry between two dynamic American drivers, Art Arfons and Craig Breedlove. "Interesting and complex. . . . The best job I've seen done on the subject so far." -- Craig Breedlove Until the 1950s, the land speed record (LSR) was held by a series of European gentlemen racers such as British driver John Cobb, who hit 394 miles per hour in 1947. That record held for more than a decade, until the car culture swept the U.S. Hot-rodders and drag racers built and souped up racers using car engines, piston aircraft engines and, eventually, jet engines. For this determined and dedicated group, the LSR was no longer an honor to be held by rich aristocrats with industrial backing -- it was brought stateside. In the summer of 1960, the contest moved into overdrive, with eight men contending for the record on Utah's Bonneville Salt Flats. Some men died in horrific crashes, others prudently retired, and by mid-decade only two men were left driving: Art Arfons and Craig Breedlove. By 1965, Arfons and Breedlove had walked away from some of the most spectacular wipeouts in motor sport history and pushed the record up to 400, then 500, then 600 miles per hour. Speed Duel is the fast-paced history of their rivalry. Despite the abundant heart-stopping action, Speed Duel is foremost a human drama. Says author Samuel Hawley, "It is a quintessential American tale in the tradition of The Right Stuff, except that it is not about extraordinary men doing great things in a huge government program. It's about ordinary men doing extraordinary things in their back yards."

Cooking for Geeks

A Secret History of the Quest for the Sound Barrier, and the Band of American Aces Who Conquered It

Breaking the Barriers Between Music and Technology: A Memoir

A First-person Account of Breaking the Sound Barrier

Chuck Yeager and the Bell X-1

Supersonic Cruise Technology (NASA SP-472) - History of Breaking the Sound Barrier, U.S. and Foreign SST Transport Programs, B-70, TU-144, Concorde, Problems with Sonic Boom, Pollution, Aerodynamics

As commander of the nation's most elite FBI counterterrorism unit, agent Max Bhagat leads by hard-driving example: pushing himself to the limit and beyond, taking no excuses, and putting absolutely nothing ahead of his work. That includes his deep feelings for Gina Vitagliano, the woman who won his admiration and his heart with her courage under fire. But when the shocking news reaches him that Gina has been killed in a terrorist bombing, nothing can keep Max from making a full investigation and retribution his top priority.

From the bestselling author of The Assault on Intelligence, an unprecedented high-level master narrative of America's intelligence wars, demonstrating in a time of new threats that espionage and the search for facts are essential to our democracy For General Michael Hayden, playing to the edge means playing so close to the line that you get chalk dust on your cleats. Otherwise, by playing back, you may protect yourself, but you will be less successful in protecting America. "Play to the edge" was Hayden's guiding principle when he ran the National Security Agency, and it remained so when he ran CIA. In his view, many shortsighted and uninformed people are quick to criticize, and this book will give them much to chew on but little easy comfort; it is an unapologetic insider's look told from the perspective of the people who faced awesome responsibilities head on, in the moment. How did American intelligence respond to terrorism, a major war and the most sweeping technological revolution in the last 500 years? What was NSA before 9/11 and how did it change in its aftermath? Why did NSA begin the controversial terrorist surveillance program that included the acquisition of domestic phone records? What else was set in motion during this period that formed the backdrop for the infamous Snowden revelations in 2013? As Director of CIA in the last three years of the Bush administration, Hayden had to deal with the rendition, detention and interrogation program as bequeathed to him by his predecessors. He also had to ramp up the agency to support its role in the targeted killing program that began to dramatically increase in July 2008. This was a time of great crisis at CIA, and some agency veterans have credited Hayden with actually saving the agency. He himself won't go that far, but he freely acknowledges that CIA helped turn the American security establishment into the most effective killing machine in the history of armed conflict. For 10 years, then, General Michael Hayden was a participant in some of the most telling events in the annals of American national security. General Hayden's goals in writing this book are simple and unwavering: No apologies. No excuses. Just what happened. And why. As he writes, "There is a story here that deserves to be told, without varnish and without spin. My view is my view, and others will certainly have different perspectives, but this view deserves to be told to create as complete a history as possible of these turbulent times. I bear no grudges, or at least not many, but I do want this to be a straightforward and readable history for that slice of the American population who depend on and appreciate intelligence, but who do not have the time to master its many obscure characteristics."

A fascinating review of the record-breaking experimental aircraft of the future currently being built and tested by the U.S. Air Force and NASA. The X-Planes, drawing on recently declassified information, is the first comprehensive book on the experimental aircraft. 335 photos and 30 scale drawings.

Chuck Yeager loved to fly. His determination led him to be a fighter and test pilot. He flew as often as he could in any craft he could. Eventually, he became the expert on military aircraft. He knew just what each plane could do, and more importantly, what it couldn't. As important as knowing how far he could push a plane, he also knew when to pull back. His pioneering efforts in breaking the sound barrier made modern aviation and space exploration possible.

The remarkable story of rising to the top of the music charts, a second act as a tech pioneer, and the sustaining power of creativity and art. Thomas Dolby's hit songs "She Blinded Me with Science" and "Hyperactive!" catapulted him to international fame in the early 80's. A pioneer of New Wave and Electronica, Thomas combined a love for invention with a passion for music, and the result was a new sound that defined an era of revolutionary music. But as record company politics overshadow the joy of performing, Thomas finds a surprising second act. Starting out in a rat-infested London bedsit, a teenage Thomas Dolby stacks boxes by day at the grocery and tinkers with a homemade synthesizer at night while catching the Police at a local dive bar, swinging by the pub to see the unknown Elvis Costello and starting the weekend with a Clash show at a small night club. London on the eve of the 1980s is a hotbed for music and culture, and a new sound is beginning to take shape, merging technology with the musical energy of punk rock. Thomas plays keyboards in other bands'

shows, and with a bit of luck finds his own style, quickly establishing himself on the scene and recording break out hits that take radio, MTV and dance clubs by storm. The world is now his oyster, and sold out arenas, world tours, even a friendship with Michael Jackson become the fabric of his life. But as the record industry flounders and disillusionment sets in, Thomas turns his attention to Hollywood. Scoring films and computer games eventually leads him to Silicon Valley and a software startup that turns up the volume on the digital music revolution. His company barely survives the dotcom bubble but finally even the mavericks at Apple, Microsoft, Netscape and Nokia see the light. By 2005, two-thirds of the world's mobile phones embed his Beatnik software. Life at the zenith of a tech empire proves to be just as full of big personalities, battling egos and roller-coaster success as his days spent at the top of the charts. THE SPEED OF SOUND is the story of an extraordinary man living an extraordinary life, a single-handed quest to make peace between art and the digital world.

The Lonely Sky

Speed of Sound

Wings on My Sleeve

Breaking the Sound Barrier and Beyond : the Story of the Bell X-1 and Douglas D-558

Chuck Yeager & the Bell X-1

How What We Hear Transforms Our Brains and Our Lives

"the excitement is magnificently conveyed...one reads with breathless attention..." ·New York Times·Orville Prescott "the drama, color and sheer readability of an exciting novel" ·Los Angeles Times·Henry Ladd Smith "one of the year's most fascinating adventure stories" ·TIME Magazine·Current and Choice "the most vivid account on test-piloting ever written." ·D.S. Dodson·Saturday Review Literature "this is one of the finest books on test flying the reviewer has seen." ·New York Times·B.K. Thorne "a philosophical and curiously prophetic book" ·Joseph Henry Jackson·San Francisco Chronicle "Bill Bridgeman and the Skyrocket, the stormiest, happiest, most enthralling love story you are ever apt to read" ·Scott O'Dell This is the powerful and enthralling story of a man who daily enters that lonely region beyond the speed of sound. A narrative of needle-nosed rocket powered ships flying at blistering speeds, it is also the moving testament of a man risking his life to push back the frontiers of scientific knowledge. Like St.-Exupéry, Bridgeman is capable of describing the vastness and beauty of the skies. But as America's foremost experimental test pilot, he is constantly aware of the multitude of technical information which he is called upon to use at any given instant. After the war, Bill Bridgeman left the Navy a restless man. Seeking action, he joined Douglas Aircraft as an engineering test pilot. Soon he was asked to take over the final stages of the Skyrocket testing program. The Skyrocket, a javelin-shaped experimental rocket powered ship, was a challenge to Bridgeman. The story of his day-by-day life with the plane is the substance of THE LONELY SKY. Bill Bridgeman died in an airplane accident in 1968.

The Quest for Mach One

Fly by Wire

Playing to the Edge

Breaking Through

Faster Than Sound

Supersonic Flight