

## Electrical Wizard How Nikola Tesla Lit Up The World

As a child, Nikola Tesla saw a picture of a waterfall and imagined an invention that would harness the water's energy. Decades later, he invented the water wheel. Learn about this innovative inventor, who changed the world of electricity.

Nikola Tesla was a physicist, scientist, electrical engineer, and world-renowned inventor whose accomplishments faded into oblivion after his death in 1943. Tesla was undeniably eccentric and compulsive; some considered him to be somewhat of a "mad" scientist. But in reality, he was a visionary. Many of his ideas and inventions that were deemed impossible during his lifetime have since become reality. He was the first to successfully use rotating magnetic fields to create an AC (alternating current) electrical power supply system and induction motor. He is now acknowledged to have invented the radio ahead of Marconi. Among other things, he developed the Tesla coil, an oscillator, generators, fluorescent tubes, neon lights, and a small remote-controlled boat. He helped design the world's first hydroelectric plant at Niagara Falls.

Nikola Tesla for Kids is the story of Nikola Tesla's life and ideas, complete with a time line, 21 hands-on activities, and additional resources to better understand his many accomplishments.

Lena Blackburne loved baseball. He watched it, he played it, he coached it. But he didn't love the ways players broke in new baseballs. Tired of soggy, blackened, stinky baseballs, he found a better way. Thanks to a well-timed fishing trip and a top-secret mud recipe, Lena Blackburne Baseball Rubbing Mud was born. For seventy-five years, baseball teams have used Lena's magic mud to prepare baseballs before every game. Read the story of how Lena's mud went from a riverbank to the major leagues and all the way to the Hall of Fame.

In the early 1880s, only a few wealthy city dwellers enjoyed electric lighting in their homes. Everyone else had to make due with dirtier and more dangerous lighting technology, such as kerosene lanterns and gas lamps. Eager companies wanted to be among the first to supply electric power to more Americans. The early providers would set the standards—and they would reap great profits. Inventor Thomas Edison already had a leading role in the industry: he had invented the first reliable electrical light bulb. By 1882, his Edison Electric Light Company was distributing electricity using a system called direct current, or DC. But an inventor named Nikola Tesla challenged Edison. Tesla believed that an alternating current—or AC—system would be better. With an AC system, one power station could deliver electricity across many miles, compared to only about one mile for DC. Each inventor had his backers. Business tycoon George Westinghouse put his money behind Tesla and built AC power stations. Meanwhile, Edison and his DC backers said that AC was dangerous. They said that AC could easily electrocute people, so it should power the newly invented electric chair. Edison believed this negative association would sway public opinion toward DC power. The battle over which system would become standard became known as the War of the Currents. This exciting book tells the story of that war, the people who fought it, and the ways in which both kinds of electric power changed the world.

Remote controls, fluorescent lights, X-rays, speedometers, cell phones, even the radio - all resulted from Nikola Tesla's inventions. Back matter includes additional information about Tesla, scientific notes and explanations, source notes, a bibliogr

"Nikola Tesla on free energy & wireless transmission of power"--Cover.

NEWLY REVISED EDITION! HERE NOW -- IN THIS EXPANDED WORK -- ARE SOME OF THE MOST BIZARRE EXPERIMENTS CARRIED OUT BY THE WORLD'S GREATEST ELECTRICAL WIZARD UNDER THE MOST HUSH-HUSH OF CIRCUMSTANCES. EXPERIMENTS DEALING WITH. . . TIME TRAVEL, ALTERNATIVE AND FREE ENERGY, AS WELL AS A POSSIBLE NAZI "FLYING

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SAUCER" CONNECTION. Nikola Tesla was the genius credited for creating much of modern, electrical technology. Yet, his contributions have been largely forgotten. An examination of Nikola Tesla's lost papers -- some of which were confiscated by the U.S. government after his death -- shows that Tesla was interested in and experimented with many concepts that have been regarded until recently as "wild ideas." It's no surprise that Tesla was loath to speak of these kinds of interests -- after all, even now these areas of study still come under fire by the majority of mainstream scientists who refuse to use their imaginations and intellect and scorn such matters with terms such as "voodoo science" and "unadulterated quackery." It is now known that there have been a number of top-secret programs that were devoted to either investigating or, shockingly enough, actively using technology based on some of Tesla's more unorthodox ideas. Both the United States and Russia have active Particle Beam and RF (radio-frequency) weaponry that has been in operation since the early 1970s -- all as a result of Tesla's early 19th and 20th Century experiments. To say that there are other black budget projects involving Tesla-based research would vastly underestimate the total amount of research and development being conducted right now by many countries worldwide. And these are the projects that we know about. Who knows how many deep, dark, secret projects are being conducted right now with science that could be decades, even hundreds of years, beyond what civilian science knows about today? This work exposes such topics as: Reverse Gravity -- Free Energy -- Contact With Hidden Dimensions -- Mysterious Radio Signals From Space -- Earth Changes -- Freak Weather Patterns -- Electric Death Rays -- UFOs -- Particle Beam Weapons and much, much more.

Tesla's inventions transformed our world, and his visions have continued to inspire great minds for generations. Nikola Tesla invented the radio, robots, and remote control. His electric induction motors run our appliances and factories, yet he has been largely overlooked by history. In *Tesla*, Richard Munson presents a comprehensive portrait of this farsighted and underappreciated mastermind. When his first breakthrough—alternating current, the basis of the electric grid—pitted him against Thomas Edison's direct-current empire, Tesla's superior technology prevailed. Unfortunately, he had little business sense and could not capitalize on this success. His most advanced ideas went unrecognized for decades: forty years in the case of the radio patent, longer still for his ideas on laser beam technology. Although penniless during his later years, he never stopped imagining. In the early 1900s, he designed plans for cell phones, the Internet, death-ray weapons, and interstellar communications. His ideas have lived on to shape the modern economy. Who was this genius? Drawing on letters, technical notebooks, and other primary sources, Munson pieces together the magnificently bizarre personal life and mental habits of the enigmatic inventor. Born during a lightning storm at midnight, Tesla died alone in a New York City hotel. He was an acute germaphobe who never shook hands and required nine napkins when he sat down to dinner. Strikingly handsome and impeccably dressed, he spoke eight languages and could recite entire books from memory. Yet Tesla's most famous inventions were not the product of fastidiousness or linear thought but of a mind fueled by both the humanities and sciences: he conceived the induction motor while walking through a park and reciting Goethe's *Faust*. Tesla worked tirelessly to offer electric power to the world, to introduce automatons that would reduce life's drudgery, and to develop machines that might one day abolish war. His story is a reminder that technology can transcend the marketplace and that profit is not the only motivation for invention. This clear, authoritative, and highly readable biography takes account of all phases of Tesla's remarkable life.

"The story of one of the most prolific, independent, and iconoclastic inventors of this century...fascinating."—*Scientific American* Nikola Tesla (1856-1943), credited as the inspiration for radio, robots, and even radar, has been called the patron saint of modern electricity. Based on original material and previously unavailable documents, this acclaimed book

is the definitive biography of the man considered by many to be the founding father of modern electrical technology. Among Tesla's creations were the channeling of alternating current, fluorescent and neon lighting, wireless telegraphy, and the giant turbines that harnessed the power of Niagara Falls. This essential biography is illustrated with sixteen pages of photographs, including the July 20, 1931, Time magazine cover for an issue celebrating the inventor's career. "A deep and comprehensive biography of a great engineer of early electrical science--likely to become the definitive biography. Highly recommended."--American Association for the Advancement of Science "Seifer's vivid, revelatory, exhaustively researched biography rescues pioneer inventor Nikola Tesla from cult status and restores him to his rightful place as a principal architect of the modern age." --Publishers Weekly Starred Review "[Wizard] brings the many complex facets of [Tesla's] personal and technical life together in to a cohesive whole...I highly recommend this biography of a great technologist." --A.A. Mullin, U.S. Army Space and Strategic Defense Command, COMPUTING REVIEWS "[Along with A Beautiful Mind] one of the five best biographies written on the brilliantly disturbed."--WALL STREET JOURNAL "Wizard is a compelling tale presenting a teeming, vivid world of science, technology, culture and human lives."

Nikola Tesla - Genius or Madman? Noted for his incredible intellect, eccentric ideas, and world-altering inventions, Nikola Tesla has evolved into the classic example of mad scientist. But is that all there is to the story? Uncover the rich life of Tesla and learn about his entrance into the world as a "Child of Light," how he conceived his most brilliant inventions, and why he fell into obscurity and eventually died in a hotel, alone and penniless. Journey with the visionary, from a small town in Croatia all the way to New York City, and gain insight into the mind of one of the greatest thinkers the world has ever known. In this biography of Nikola Tesla, you'll discover: How his unique way of looking at the world brought the technology of the future to the 19th century What the Tesla vs Edison "Battle of the Currents" was really about His many successes - and many failures Details of his most incredible inventions, some of which we still use to this day How genius turned to madness With excerpts from Tesla's autobiography and insight from those who knew him best, this book aims to shed new light on the unique visionary and inspire the next generation of scientists. The story of Tesla will leave you feeling mournful for his sad fate, moved by his never-ending pursuit of a better future, and inspired by his enthusiasm. There's so much more to discover. Get your copy of the biography of Nikola Tesla, and decide for yourself - genius, madman, or both

"On Light and Other High Frequency Phenomena" by Nikola Tesla. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten or yet undiscovered gems of world literature, we issue the books that need to be read. Each Good Press

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Why buy when you can create to taste? The hottest kitchen gadgets are machines that transform ordinary tap water into sparkling water. Best of all, that freshly carbonated water makes a great base for flavoured sodas, delicious cocktails, and even yummy dessert drinks that everyone will love. These 100 sparkling recipes--including a Classic Bourbon Smash, Lemon Sangria, Espresso Soda Float and Pineapple Mint Soda--let you create a homemade syrup, customise your drink, use ingredients you trust and get creative with your mixology.

More than just descriptions and details, Thomas Martin attempts to explain in layman's terms the science behind Tesla's work. He has also included a short biography.?

AC/DC tells the little-known story of how Thomas Edison wrongly bet in the fierce war between supporters of alternating current and direct current. The savagery of this electrical battle can hardly be imagined today. The showdown between AC and DC began as a rather straightforward conflict between technical standards, a battle of competing methods to deliver essentially the same product, electricity. But the skirmish soon metastasized into something bigger and darker. In the AC/DC battle, the worst aspects of human nature somehow got caught up in the wires; a silent, deadly flow of arrogance, vanity, and cruelty. Following the path of least resistance, the war of currents soon settled around that most primal of human emotions: fear. AC/DC serves as an object lesson in bad business strategy and poor decision making. Edison's inability to see his mistake was a key factor in his loss of control over the ?operating system? for his future inventions?not to mention the company he founded, General Electric.

One of science's great unsung heroes, Nikola Tesla (1856-1943) was a prophet of the electronic age. His research laid much of the groundwork for modern electrical and communication systems, and his impressive accomplishments include development of the alternating-current electrical system, radio, the Tesla coil transformer, wireless transmission, and fluorescent lighting. Yet his name and work are only dimly recognized today: Tesla's research was so groundbreaking that many of his contemporaries failed to understand it, and other scientists are unjustly credited for his innovations. The visionary scientist speaks for himself in this volume, originally published in 1919 as a six-part series in *Electrical Experimenter* magazine. Tesla recounts his boyhood in Croatia, his schooling and work in Europe, his collaboration with Thomas Edison, and his subsequent research. This edition includes the essay "The Problem of Increasing Human Energy: With Special Reference to the Harnessing of the Sun's Energy," which anticipates latter-day advances in environmental technology. Written with wit and lan, this memoir offers fascinating insights into one of the great minds of modern science.

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Nikola Tesla was one of the 20th century's great pioneers; his role in advancing electrical energy through the use of alternating current, and his stupendous engineering finesse, make this biography by journalist John J. O'Neill a fine read. Born in a Serbian village to a religious family, Nikola demonstrated an early interest in physics. The nascent science behind electricity - in the 1870s a mysterious, unharnessed force - became his passion. Though the young man's engineering aspirations were almost derailed when he contracted cholera, and later by Austro-Hungarian conscription, Tesla managed to enrol to study in Graz, Austria. A top-class student, tutors admiration for Tesla's gifts and boundless curiosity was tempered by concerns over his tendency to overwork. These attributes marked Tesla's professional life; an obsessively driven man, Tesla's gifts for invention were amply demonstrated and rewarded in the United States. As his ambitions grew in size and scope, Tesla was hailed as a visionary.

\*Includes pictures of Tesla, Edison and important people and places in their lives. \*Includes some of the inventors' most inspiring quotes and explanations of their inventive techniques. \*Discusses the relationship and rivalry between Edison and Tesla \*Includes a Bibliography for further reading. Thomas Edison holds a unique legacy in the United States, but there's no denying that his inventions have benefited the world as a whole. Known as "The Wizard of Menlo Park," every American knows that their nation's most prolific inventor harnessed the power of electricity to create the first light bulb. But that was just one of over 1,000 patents Edison would establish during his life, as he not only dreamed up new devices but also revolutionized the way materials were mass produced. His life's work heavily influenced everything from electric power, batteries and lighting to cement, telegraphy and mining. While Edison's inventions are important, what he represented was also critical to the nation as a whole. Edison represented the American Dream, specifically the notion that hard work can accomplish anything, and he always understood that himself, once exhorting the nation, "Be courageous! Whatever setbacks America has encountered, it has always emerged as a stronger and more prosperous nation." As one Edison biographer put it, "Thomas Edison was more responsible than any one else for creating the modern world...No one did more to shape the physical/cultural makeup of present day civilization..." If anyone could challenge that claim, it might be Nikola Tesla. Born a Serb in the Austrian Empire, Tesla came to the United States and worked in a laboratory for none other than the Wizard of Menlo Park, Thomas Edison. It was through his work on behalf of Edison that Tesla flourished and became a well-known figure in his own right. His work there helped him establish financial backing for his own projects, particularly the design of AC (alternating current) as a system for supplying electricity. This later put him at odds with Edison, who championed DC (direct current), but Tesla's model would come out on top as the 19th century came to a close. Having established AC as an electrical supply system, Tesla became a global celebrity, and his devices and inventions fascinated people. Tesla tinkered with everything from X-rays to wireless communications and even attempted a primitive form of the radio. While Tesla was not able to successfully execute the devices and concepts he foresaw, his forward thinking in fields like wireless communication certainly proved prescient, and his futuristic devices and his later reputation for eccentricity helped create the "mad

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scientist" image that still remains a pop culture fixture. Tesla seemed to have come to grips with this aspect of his legacy late in life, noting, "The scientific man does not aim at an immediate result. He does not expect that his advanced ideas will be readily taken up. His work is like that of the planter - for the future. His duty is to lay the foundation for those who are to come, and point the way." This book profiles the lives and legacies of the two famous scientists, while also examining their inventions and work. Along with pictures of important people, places, and events, you will learn about Edison and Tesla like never before. Everybody knows that Thomas Edison devised electric light and domestic electricity supplies, that Guglielmo Marconi thought up radio and George Westinghouse built the world's first hydro-electric power station. Everybody knows these 'facts' but they are wrong. The man who dreamt up these things also invented, inter-alia, the fluorescent light, seismology, a worldwide data communications network and a mechanical laxative. His name was Nikola Tesla, a Serbian-American scientist, and his is without doubt this century's greatest unsung scientific hero. His life story is an extraordinary series of scientific triumphs followed by a catalog of personal disasters. Perpetually unlucky and exploited by everyone around him, credit for Tesla's work was appropriated by several of the West's most famous entrepreneurs: Edison, Westinghouse and Marconi among them. After his death, information about Tesla was deliberately suppressed by the FBI. Using Tesla's own writings, contemporary records, court transcripts and recently released FBI files, *The Man who Invented the Twentieth Century* pieces together for the first time the true extent of Tesla's scientific genius and tells the amazing tale of how his name came to be so widely forgotten. Nikola Tesla is the engineer who gave his name to the unit of magnetic flux. *The Man Who Invented the Twentieth Century*. Robert's biography of his childhood hero was launched at the 1999 Orkney Science Festival, where Robert gave a talk on Tesla in conjunction with Andrej Detela from the Department of Low and Medium Energy Physics at the Jozef Stefan Institute in Ljubijana, Slovenia. Reviews Robert Gaitskell, a vice-president of the Institution of Electrical Engineers, writing in the *Times Higher Education Supplement*, said: "Robert Lomas is to be congratulated on an easy-to-read life of a tortured genius. The book not only takes us through the roller-coaster fortunes of Tesla, but also has well-constructed chapters on the history of electrical research and on lighting. Although dealing at times, with difficult technical concepts, it never succumbs to jargon and remains intelligible to the informed lay-person throughout. Every scientist or engineer would enjoy this tale of errant brilliance, and a younger student would be enthused towards a research career." Angus Clarke, writing in the *Times Metro Magazine* said: "Nikola Tesla is the forgotten genius of electricity. He invented or laid the groundwork for many things we take for granted today including alternating current, radio, fax and e-mail. A Croatian immigrant to America in 1884 Tesla combined genius with gaping character flaws and an uncanny ability to be ripped off by everyone. This is scientific popularisation at its most readable." *Engineering and Technology Magazine* said: "This book is fun, which is not something one often says about engineering books...Tesla is most widely known for the magnetic unit that bears his name, but sadly little else. This book is a thoroughly entertaining way of correcting that injustice, a must for engineers, especially electrical ones."

Two captivating manuscripts in one book: Nikola Tesla: A Captivating Guide to the Life of a Genius Inventor Thomas Edison: A

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Captivating Guide to the Life of a Genius Inventor Who was the real winner in the war of the currents? What happened to both of them? And what were their lives like from beginning to end?

"Nilola Tesla: complete bibliography" (p. 349-351).

Explores the evolution of curiosity from stigma to scientific stimulus through a look at the inventions and discoveries made between the sixteenth and eighteenth centuries, and details how curiosity functions in science today.

Nikola Tesla was a major contributor to the electrical revolution that transformed daily life at the turn of the twentieth century. His inventions, patents, and theoretical work formed the basis of modern AC electricity, and contributed to the development of radio and television. Like his competitor Thomas Edison, Tesla was one of America's first celebrity scientists, enjoying the company of New York high society and dazzling the likes of Mark Twain with his electrical demonstrations. An astute self-promoter and gifted showman, he cultivated a public image of the eccentric genius. Even at the end of his life when he was living in poverty, Tesla still attracted reporters to his annual birthday interview, regaling them with claims that he had invented a particle-beam weapon capable of bringing down enemy aircraft. Plenty of biographies glamorize Tesla and his eccentricities, but until now none has carefully examined what, how, and why he invented. In this groundbreaking book, W. Bernard Carlson demystifies the legendary inventor, placing him within the cultural and technological context of his time, and focusing on his inventions themselves as well as the creation and maintenance of his celebrity. Drawing on original documents from Tesla's private and public life, Carlson shows how he was an "idealist" inventor who sought the perfect experimental realization of a great idea or principle, and who skillfully sold his inventions to the public through mythmaking and illusion. This major biography sheds new light on Tesla's visionary approach to invention and the business strategies behind his most important technological breakthroughs.

"Ever wanted to learn more about Nikola Tesla, but never felt you had the time to read a comprehensive work? Here author Cynthia A. Parker removes that pain by offering an opportunity to Get-to-Know the 'Master of Electricity.' to learn of his youth and upbringing, his early career, and of course his pivotal role in advancing the World into the Electrical Age! Turn these pages and enjoy the opportunity to learn history, but better yet to come to know Tesla better through Parker's amazing ability to describe his life, his and above all, his accomplishments; making this an enjoyable and interesting Quick-Read Biography"--Back cover.

Part one of the Tesla Presents series, this book contains the transcript of an extended pre-hearing interview with Nikola Tesla in which he chronicals his efforts directed towards the development of an earth-based system for wireless telecommunications. An Appendix section includes the description of a physical plant built for this purpose in 1901 as reported in foreclosure appeal proceedings. 103 photos and line-art illustrations, indexed.

An introduction to the pioneering ideas of a leading contributor to modern electrical engineering includes coverage of such topics as his rivalry with Thomas Edison, his innovations in the field of alternating current and his history-changing role in the development of such inventions as remote controls, fluorescent lights and cell phones.

The gripping history of electricity and how the fateful collision of Thomas Edison, Nikola Tesla, and George

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Westinghouse left the world utterly transformed. In the final decades of the nineteenth century, three brilliant and visionary titans of America's Gilded Age—Thomas Edison, Nikola Tesla, and George Westinghouse—battled bitterly as each vied to create a vast and powerful electrical empire. In *Empires of Light*, historian Jill Jonnes portrays this extraordinary trio and their riveting and ruthless world of cutting-edge science, invention, intrigue, money, death, and hard-eyed Wall Street millionaires. At the heart of the story are Thomas Alva Edison, the nation's most famous and folksy inventor, creator of the incandescent light bulb and mastermind of the world's first direct current electrical light networks; the Serbian wizard of invention Nikola Tesla, elegant, highly eccentric, a dreamer who revolutionized the generation and delivery of electricity; and the charismatic George Westinghouse, Pittsburgh inventor and tough corporate entrepreneur, an industrial idealist who in the era of gaslight imagined a world powered by cheap and plentiful electricity and worked heart and soul to create it. Edison struggled to introduce his radical new direct current (DC) technology into the hurly-burly of New York City as Tesla and Westinghouse challenged his dominance with their alternating current (AC), thus setting the stage for one of the eeriest feuds in American corporate history, the War of the Electric Currents. The battlegrounds: Wall Street, the 1893 Chicago World's Fair, Niagara Falls, and, finally, the death chamber—Jonnes takes us on the tense walk down a prison hallway and into the sunlit room where William Kemmler, convicted ax murderer, became the first man to die in the electric chair.

'[This] crisply succinct, beautifully synthesized study brings to life Tesla, his achievements and failures...and the hopeful thrum of an era before world wars.' - Nature Nikola Tesla is one of the most enigmatic, curious and controversial figures in the history of science. An electrical pioneer as influential in his own way as Thomas Edison, he embodied the aspirations and paradoxes of an age of innovation that seemed to have the future firmly in its grasp. In an era that saw the spread of power networks and wireless telegraphy, the discovery of X-rays, and the birth of powered flight, Tesla made himself synonymous with the electrical future under construction but opinion was often divided as to whether he was a visionary, a charlatan, or a fool. Iwan Rhys Morus examines Tesla's life in the context of the extraordinary times in which he lived and worked, colourfully evoking an age in which anything seemed possible, from capturing the full energy of Niagara to communicating with Mars. Shattering the myth of the 'man out of time', Morus demonstrates that Tesla was in all ways a product of his era, and shows how the popular image of the inventor-as-maverick-outsider was deliberately crafted by Tesla – establishing an archetype that still resonates today.

"A picture book biography of John Roy Lynch, one of the first African-Americans elected into the United States Congress"--Provided by publisher.

Get ready for the electrifying biography of Nikola Tesla--part creative genius, part mad scientist, and 100% innovator.

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When Nikola Tesla arrived in the United States in 1884, he didn't have much money, but he did have a letter of introduction to renowned inventor Thomas Edison. The working relationship between the two men was short lived, though, and the two scientist-inventors became harsh competitors. One of the most influential scientists of all time, Nikola Tesla is celebrated for his experiments in electricity, X-rays, remote controls, and wireless communications. His invention of the Tesla coil was instrumental in the development of radio technology.

A biography of Nikola Tesla, physicist, inventor, and electrical engineer.

In this revelatory new book, the author of the award-winning international bestseller *Wizard: The Life & Times of Nikola Tesla* delves deeper into the groundbreaking ideas and astonishing mind of one of the greatest geniuses of modern times . . . “In a few years hence, it will be possible for nations to fight without armies, ships or guns, by weapons far more terrible to the destructive action and range of which there is virtually no limit. Any city at any distance whatsoever from the enemy can be destroyed by him and no power on Earth can stop him from doing so.” —Nikola Tesla, circa 1925 Drawing on forty years of research and a treasure trove of new information, *Tesla: Wizard at War* provides a comprehensive view of Tesla's discoveries, which continue to influence today's military technology and diplomatic strategies. One of the world's leading Tesla experts, Marc J. Seifer offers new insight into the brilliant scientist's particle beam weapon (aka the “Death Ray”) and explores his military negotiations with pivotal historical figures—including his links to Joseph Stalin, Vannevar Bush, General Andrew McNaughton, and Franklin Delano Roosevelt. From Tesla's role in the origins of Star Wars technology and his dynamic theory of gravity, to the real purpose behind the iconic tower at Wardenclyffe, this is an eye-opening account of Tesla's projects, passions, and ambitions—and an illuminating, important study of one of history's most intriguing figures.

Growing up in Smiljan, Croatia, Nikola Tesla dreamed about harnessing the power of Niagara Falls. In 1884, he walked down the gangplank into the New York Harbor with four cents in his pocket, a book of poems, a drawing of a flying machine, and a letter of introduction to Thomas Edison, the “electrical wizard” of America. Upon meeting, Edison sent Tesla to fix the SS Oregon as a test and was so astounded that he offered Tesla a job at his factory. Tesla and Edison had different views about electricity; Tesla wanted to develop an alternate current while Edison wanted to stick to the direct current system. Edison offered Tesla a large sum to make his direct current system more efficient, but when the work was done, Edison refused to pay. Tesla quit and when things were looking bleak, he met George Westinghouse, who also thought that alternating current was the way to light up America. He gave Tesla a job and in 1896, Tesla and Westinghouse built a generator at Niagara Falls that was able to send power as far as Buffalo, New York.

Young Nikola Tesla got a shock when he rubbed his cat's fur. That small spark lit his imagination forever. Covering his

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early years to his eventual success in the world of electricity, *Bright Dreams* showcases Tesla's incredible journey of discovery and perseverance. Author-illustrator Tracy Dockray conveys Tesla's busy and imaginative world with collage-style artwork and informative sidebars.

"The progressive development of man is vitally dependent on invention." Visionary, pioneer, and eccentric genius, Nikola Tesla was the quintessential scientist of the late 19th and early 20th centuries. Two of his creations, the induction motor and the Tesla coil, underpin the technology of the modern world. First published as six articles in the *Electrical Experimenter* magazine, *My Inventions* tells the story of Tesla's life, from his humble beginnings in Croatia to his migration to the United States, and describes his revolutionary feats of invention and pivotal breakthroughs in the world of engineering. This book takes you on an inspirational journey into one of the world's greatest and most unconventional minds.

A lyrical biography of the eccentric engineer and inventor Nikola Tesla "An elegant and enlightening look at a man who brightened the whole world." –Booklist, starred review Born at the stroke of midnight during a lightning storm, Nikola Tesla grew up to become one of the most important electrical inventors in the world. But before working with electricity, he was a child who loved playing with the animals on his family's farm in Serbia. An inventor since childhood, Tesla's patents encompassed everything from radar and remote-control technology to wireless communications. But his greatest invention was the AC induction motor, which used alternating currents ( AC) to distribute electricity and which remains the standard for electric distribution today. Tesla's love of animals also remained constant throughout his life and led to his anointment as the Pigeon Charmer of New York for his devotion to nature's original wireless messengers. Exploring his groundbreaking inventions against the backdrop of his private life, *A Life Electric* introduces Nikola Tesla to young readers unlike ever before. Azadeh Westergaard's lyrical debut brings compassion and humanity to the legacy of the brilliant inventor, while the esteemed illustrator Júlia Sardà deftly brings him to life.

Everything you think you know about Nikola Tesla is wrong. Nikola Tesla was one of the greatest electrical inventors who ever lived. For years, the engineering genius was relegated to relative obscurity, his contributions to humanity (we are told) obscured by a number of nineteenth-century inventors and industrialists who took credit for his work or stole his patents outright. In recent years, the historical record has been "corrected" and Tesla has been restored to his rightful place among historical luminaries like Thomas Edison, George Westinghouse, and Guglielmo Marconi. Most biographies repeat the familiar account of Tesla's life, including his invention of alternating current, his falling out with Edison, how he lost billions in patent royalties to Westinghouse, and his fight to prove that Marconi stole 13 of his patents to "invent" radio. But, what really happened? Consider this: Everything you think you know about Nikola Tesla is wrong. Newly

uncovered information proves that the popular account of Tesla's life is itself very flawed. In *The Truth About Tesla*, Christopher Cooper sets out to prove that the conventional story not only oversimplifies history, it denies credit to some of the true inventors behind many of the groundbreaking technologies now attributed to Tesla and perpetuates a misunderstanding about the process of innovation itself. Are you positive that Alexander Graham Bell invented the telephone? Are you sure the Wright Brothers were the first in flight? Think again! With a provocative foreword by Tesla biographer Marc J. Seifer, *The Truth About Tesla* is one of the first books to set the record straight, tracing the origin of some of the greatest electrical inventions to a coterie of colorful characters that conventional history has all but forgotten. Looks at the life of Maria Anna Mozart, the older sister of Wolfgang Amadeus Mozart and a musical prodigy in her own right, who was forced by their father to put aside her talent and become a piano teacher to support his ambitious plans for her brother.

Now in paperback. Meet Frank Zamboni, whose determination and persistence led to his invention of the now-famous Zamboni ice-resurfacing machine. When Frank Zamboni, along with his brother and cousin, opened their own skating rink in 1940 in Paramount, California, it could take an hour and a half for a crew to resurface the ice. They had to level the surface by shaving down the pits and grooves with a tractor, remove the shavings, wash the ice and find a way to give the rink its shining finish. Skaters became exasperated with the wait, so Frank was determined to do something about it. Could he turn a ninety-minute job for five men into a ten-minute task for only one? Working in the shed behind his ice rink, Frank drew designs and built models of machines he hoped would do the job. For nine years, he worked on his invention, each model an improvement on the one before. Finally, in 1949, Frank tested the Model A, which cleaned the ice in one sweep around the rink. The rest is history.

"An interview with Tesla, the modern miracle-worker, who is harnessing the rays of the sun; has discovered ways of transmitting power without wires and of seeing by telephone; has invented a means of employing electricity as a fertiliser; and, finally, is able to manufacture artificial daylight. -- subtitle of text and also

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