

Read Free On A Beam Of Light: A Story Of Albert Einstein

On A Beam Of Light: A Story Of Albert Einstein

"A new edition with a final chapter written forty years after the explosion."

A colorfully illustrated biography of a little French boy who would become an internationally known oceanographer and champion of the seas. Once upon a time in France, a baby was born under the summer sun. His parents named him Jacques. As he grew, Jacques fell in love with the sea. He dreamed of breathing beneath the waves and swimming as gracefully as a fish. In fact, he longed to become a manfish.

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Jacques Cousteau grew up to become a champion of the seas and one of the best-known oceanographers in the world. In this lovely biography, poetic text and gorgeous paintings come together to create a portrait of Cousteau that is as magical as it is inspiring. Praise for *Manfish* “ Berne offers a luminous picture-book biography about Jacques Cousteau . . . Puybaret ’ s smooth-looking acrylic paintings extend the words ’ elegant simplicity and beautifully convey the sense of infinite, underwater space. ” —Booklist (starred review)

“ This moving tribute to the great nautical observer and filmmaker is shot through with an authentically childlike sense of adventure and the thrill of discovery This poetic

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profile of a doer and a dreamer is certain to inspire fresh interest in discovering, and in caring for, our world ' s wonders. ” —Kirkus Reviews (starred review) “ A new generation of children is introduced to the pioneering oceanographer and filmmaker. Beginning with Cousteau ' s childhood in France where he marveled at the sea and dreamed of breathing underwater, Berne reveals the unique mix of curiosity, ingenuity, and passion that drove Cousteau to make underwater exploration possible. ” —School Library Journal

Light is an element that draws together many areas of human knowledge: physics, chemistry, biology, astronomy,

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engineering, and art. Moreover, optical phenomena and the technologies based on them are widespread in our daily lives. However, it can be difficult to understand or explain these phenomena. What is light? Where are optics and photonics present in our lives and in nature? What lies behind different optical phenomena? What is an optical instrument? How does the eye resemble an optical instrument? How can we explain human vision?

In the bestselling tradition of *The Five People You Meet in Heaven* and *Humans of New York* comes a collection of authentic, emotional, and inspiring stories about life 's most important moments, as curated by the editors at Love

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What Matters. “ 90% of the reads bring me to tears. I just can't believe the love this world truly has when all we see is hate. This is so uplifting. ” —Shelsea Where do you go when you want to feel inspired? When you want to forget about the divisiveness and the anger? For over five million people, that place is Love What Matters, a digital platform dedicated to finding and sharing the daily moments of kindness, compassion, and love that so often go overlooked. This curated collection of powerful stories features first person accounts and photographs that perfectly capture each moment: A husband learning he 's about to be a dad. A new mom embracing her body. A cashier inadvertently

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teaching a young girl a lesson about patience. A bagel from a stranger that saved a homeless man ' s life. From long overdue adoptions to military heroes returning home; from a fireman ' s touching 9/11 tribute to what an old dinner plate found at a bake sale can teach us all about life—these are the moments that matter. They are genuine. Authentic. Raw. And they are perfect in their imperfection—just like all of us. You will no doubt experience goosebumps and tears, but this mosaic of life ' s moments will leave you with something even more profound: a reminder that, in the end, love always wins. “ This really is the best page on Facebook. It renews your love of humanity. There are still good people.

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We need more reports of acts of kindness. ” —Johnny

A Story of Jacques Cousteau

Generation and Propagation of Customized Light

Infinity and Me

Love What Matters

Neil DeGrasse Tyson: a Life Among the Stars

On a Beam of Light

This beautifully illustrated graphic novel tells the history of contemporary Thailand through the life of a blind man who walks on the streets of the capital for the last time.

Explore the Greatest Moments of Star Wars “ With his

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deep well of knowledge and heartfelt respect for the fandom, I can think of no one more qualified than Ken Napzok to connect readers to the love of Star Wars. ”

Jennifer Muro, Television writer, Star Wars: Forces of Destiny #1 Best Seller in Science Fiction & Fantasy, Guides & Reviews, and Historical & Biographical Fiction
May the Force be with you as you explore the greatest moments of a galaxy far, far away Celebrate the greatest saga ever told. We all have been deeply influenced by the epic saga of Star Wars and The Mandalorian. Every time the screen goes black, the music fades in, and you see these words “ A Long Time Ago, In A Galaxy Far, Far Away ” nostalgia fills

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the room. Ken Napzok, expert on all things Star Wars, counts down each one of those special moments that makes this series not just the best movies of all time, but the greatest saga ever told. Become a scholar of Star Wars. What began as one movie about good people, evil oppressors, and the Jedis that stood between them has exploded into a franchise from the original to The Mandalorian. This book gives you a re-introduction to meeting Princess Leia, Luke, and the very misunderstood Darth Vader. The perfect Star Wars gift. Spread the love to old and new fans. Countless numbers of us have been inspired by these epic tales. We all have a favorite moment that hooked us like the

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first time we saw the crackle of Luke Skywalker ' s lightsaber, the first shots of the ragtag Rebels running from the monstrous Galactic Empire, or the Young Anakin winning the podrace in the Boonta Eve Classic race in 32 BBY. Why We Love Star Wars: The Great Moments That Built A Galaxy Far, Far Away is the best Star Wars gift for the film buff who has read The Art of Star Wars, Star Wars Year By Year, or The Star Wars Archives.

This out-of-this-world kit for sci-fi lovers is loaded with special effects! It includes: -3-inch diameter spaceship, equipped with a hinged cockpit dome from which a curious alien peers, and featuring multiple light and

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sound effects: By opening the cockpit dome and pressing the alien's head, sound of spaceship engine plays, followed by eerie pre-abduction music. Six blue lights around the spaceship flash in rotation.

Additionally, two bright LED lights beneath the ship glow, casting a beam of light in search of a specimen to abduct. When the spaceship is hovered in close proximity to the cow, a magnetically powered "abduction" occurs which simultaneously prompts new light and sound effects. Lights beneath the ship flash and music changes to a pulsating sound with intermittent cow mooing. When cow is abducted and alien head is pressed again, sound of the spaceship

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flying away plays, concluding your invasion and shutting off the spaceship. -Miniature cow and faux grass mound -Transparent display stand to hover spaceship over cow when not invading the countryside -32-page book, The Cow Abduction Chronicles, featuring full-color illustrations

Five years to the day, almost to the second, after he disappeared from the Manhattan Psychiatric Institute, leaving his host body in a catatonic state, the being known as prot (rhymes with goat) has returned. Now, in sixteen more sessions with psychiatrist Gene Brewer, prot reveals that he has come back to escort a chosen few to his home planet, K-PAX. K-PAX is an idyllic planet

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free of the pain and suffering of earth. Prot has incredible insights into how to cure that suffering, and his radical ideas have made him a celebrity. Now, legions of people are longing to follow him home. But Dr. Brewer has heard it before. Five years ago, he discovered another person buried deep in prot's personality: Robert Porter of Montana. The mystery of Robert's illness and of prot's true origins lie deep within Robert's shattered psyche. Now Dr. Brewer must race against the clock to unlock the secrets of Robert's traumatic past and not only save his patient but maybe humanity.

On a Beam of Light: Albert-CC

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Beam Up Your Bovine (With Light and Sound!)

Real People. Real Stories. Real Heart.

On a Beam of Light: Albert Einstein

A Guided Tour of Light Beams

Odd Boy Out

Orbital Angular Momentum States of Light provides an in-depth introduction to modelling of long-range propagation of orbital angular momentum (OAM) modes as well as more general structured light beams through atmospheric turbulence. Starting with angular

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spectrum method for diffraction and description of structured light states, the book discusses the technical details related to wave propagation through atmospheric turbulence. The review of historical as well as more recent ideas in this topical area, along with computer simulation codes, makes this book a useful reference to researchers and optical engineers interested in developing and testing of free-space applications of OAM states

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of light. ?Key Features Includes
modelling of long-range propagation
using the angular spectrum approach
Presents basic description of
turbulence propagation using single or
multi-phase screen models Provides
information on advanced topics such as
propagation polarization of
singularities through turbulence
Provides discussion on the spiral phase
quadrature transform and its
application for robust beam engineering

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Includes accompanying open-source software code snippets for modelling the propagation of scalar and vector beams through turbulence

“You either love Andrea Camilleri or you haven’t read him yet. Each novel in this wholly addictive, entirely magical series, set in Sicily and starring a detective unlike any other in crime fiction, blasts the brain like a shot of pure oxygen – altogether transporting. Long live Camilleri, and

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long live Montalbano.” A.J. Finn, #1 New York Times bestselling author of The Woman in the Window “In Sicily, where people do things as they please, Inspector Salvo Montalbano is a bona fide folk hero.”—The New York Times Book Review When Inspector Montalbano falls under the charms of beautiful gallery owner Marian, his longtime relationship with Livia comes under threat. Meanwhile, he is also troubled by a strange dream as three crimes

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demand his attention: the assault and robbery of a wealthy merchant's young wife, shady art deals, and a search for arms traffickers that leads him deep into the countryside, where the investigation takes a tragic turn.

This volume in the SPIE Tutorial Text series presents a practical approach to optical testing, with emphasis on techniques, procedures, and instrumentation rather than mathematical analysis. The author

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provides the reader with a basic understanding of the measurements made and the tools used to make those measurements. Detailed information is given on how to measure and characterize imaging systems, perform optical bench measurements to determine first- and third-order properties of optical systems, set up and operate a Fizeau interferometer and evaluate fringe data, conduct beam diagnostics (such as wavefront sensing), and

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perform radiometric calibrations.

Édouard Schuré was a 19th century French author and occultist who spent his life attempting to translate the ineffable realm of spiritual knowledge into literature. Prolific and enigmatic, Schuré navigated many of the seminal movements of his time, developing friendships with prominent figures such as Friedrich Nietzsche, Stéphane Mallarmé, and Richard Wagner. Yet, despite these affinities, Schuré

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refused to adhere to any one group or dogma. Perhaps due to his singular persona, Schuré has since lived in a netherworld of historical neglect. A Beam of Sunlight in the Deep Forest is a landmark collection of Schuré's prose works, offering a robust introduction to the forgotten figure. Among the texts included are Proses mystiques, short pieces invoking disembodied voices, philosophical anguish, and dark woods haunted by a virgin cloaked in a

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panther pelt. Central to the collection is *The Angel and the Sphinx*, Schuré's hallucinatory novel of sexual possession and spiritual longing set against a Medieval Germany of fog-enshrouded mountaintops infused with black magic. Also included is a reminiscence of a boyhood mystical experience at the Baden spa, as well as an examination of notable correspondence. Taken together, these texts offer truths about the artistic

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process and the spiritual development of humanity in the face of an ever more industrialized, and secularized, world. All texts in A Beam of Sunlight in the Deep Forest are newly translated and presented with an introduction by Sam Kunkel, a scholar of 19th century religious literature.

UFO Cow Abduction

Riding on a Beam of Light

From Lasers to Optical Knots

The Transall Saga

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Hiroshima

The Boy Who Loved Math

An inspiring and kid-accessible biography of one of the world's most famous poets. Emily Dickinson, who famously wrote "Hope is the thing with feathers that perches in the soul," is brought to life in this moving story. In a small New England town lives Emily Dickinson, a girl in love with small things—a flower petal, a bird, a ray of light, a word. In those small things, her brilliant imagination can see the wide world—and in her words, she takes wing. From celebrated children's author Jennifer Berne comes a

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lyrical and lovely account of the life of Emily Dickinson: her courage, her faith, and her gift to the world. With Dickinson's own inimitable poetry woven throughout, this lyrical biography is not just a tale of prodigious talent, but also of the power we have to transform ourselves and to reach one another when we speak from the soul. • Fantastic educational opportunity to share Emily Dickinson's story and poetry with young readers • An inspirational real-life story that will appeal to children and adults alike. • Jennifer Berne is the author of critically acclaimed children's biographies of Albert Einstein and Jacques

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Cousteau. Fans who enjoyed Emily Writes: Emily Dickinson and her Poetic Beginnings, Emily and Carlo, and Uncle Emily will love On Wings of Words.

• Books for kids ages 5–8 • Poetry for children • Biographies for children Jennifer Berne is the award-winning author of the biographies Manfish: A Story of Jacques Cousteau and On a Beam of Light: A Story of Albert Einstein. She lives in Copake, New York. Becca Stadtlander is the illustrator of many children's and young adult publications, including Sleep Tight Farm. She was born and raised in Covington, Kentucky.

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Most people think of mathematicians as solitary, working away in isolation. And, it's true, many of them do. But Paul Erdos never followed the usual path. At the age of four, he could ask you when you were born and then calculate the number of seconds you had been alive in his head. But he didn't learn to butter his own bread until he turned twenty. Instead, he traveled around the world, from one mathematician to the next, collaborating on an astonishing number of publications. With a simple, lyrical text and richly layered illustrations, this is a beautiful introduction to the world of math and a fascinating look at the unique

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character traits that made "Uncle Paul" a great man. The Boy Who Loved Math by Deborah Heiligman is a Kirkus Reviews Best Book of 2013 and a New York Times Book Review Notable Children's Book of 2013.

Follows the life of the famous physicist, from his early ideas to his groundbreaking theories.

Humans receive the vast majority of sensory perception through the eyes and ears. This non-technical book examines the everyday physics behind hearing and vision to help readers understand more about themselves and their physical

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environment. It begins wit

Hoop Genius

Sound and Light

The Improbable Life of Paul Erdos

Orbital Angular Momentum States of Light

The Everyday Physics of Hearing and Vision

Laser Beam Propagation

Genius demystified, the Dummies way! In 1905, Albert Einstein revolutionized modern physics with his theory of relativity. He went on to become a twentieth-century icon-a man whose name and face are synonymous with "genius." Now, at last, ordinary readers can explore

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Einstein's life and work in this new For Dummies guide. Physicist Carlos Calle chronicles Einstein's career and explains his work-including the theories of special and general relativity-in language that anyone can understand. He shows how Einstein's discoveries affected everything from the development of the atom bomb to the theory of quantum mechanics. He sheds light on Einstein's personal life and beliefs, including his views on religion and politics. And he shows how Einstein's work continues to affect our world today, from nuclear power to space travel to artificial intelligence.

Taking over a rowdy gym class right before winter

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vacation is not something James Naismith wants to do at all. The last two teachers of this class quit in frustration. The students—a bunch of energetic young men—are bored with all the regular games and activities. Naismith needs something new, exciting, and fast to keep the class happy—or someone's going to get hurt. Saving this class is going to take a genius. Discover the true story of how Naismith invented basketball in 1891 at a school in Springfield, Massachusetts.

Unearth the true story of green-thumbed pioneer and activist Kate Sessions, who helped San Diego grow from a dry desert town into a lush, leafy city known for

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its gorgeous parks and gardens. Katherine Olivia Sessions never thought she'd live in a place without trees. After all, Kate grew up among the towering pines and redwoods of Northern California. But after becoming the first woman to graduate from the University of California with a degree in science, she took a job as a teacher far south in the dry desert town of San Diego. Where there were almost no trees. Kate decided that San Diego needed trees more than anything else. So this trailblazing young woman singlehandedly started a massive movement that transformed the town into the green, garden-filled oasis it is today. Now, more than 100 years after Kate

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first arrived in San Diego, her gorgeous gardens and parks can be found all over the city. Part fascinating biography, part inspirational story, this moving picture book about following your dreams, using your talents, and staying strong in the face of adversity is sure to resonate with readers young and old.

When he was born, Albert was a peculiar, fat baby with an unusually big and misshaped head. When he was older, he hit his sister, bothered his teachers, and didn't have many friends. But in the midst of all of this, Albert was fascinated with solving puzzles and fixing scientific problems. The ideas Albert Einstein came up with during his childhood as an odd boy out were

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destined to change the way we know and understand the world around us . . .

A Novel

Why We Love Star Wars

Discovering Light

College Physics

University Physics

"A cozy whodunit that cheerfully affirms girls' and women's contributions to aerospace." —Kirkus Reviews "Comparisons with Nancy Drew and Sammy Keyes come to mind, but this satisfying mystery seems more like the

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works of Ellen Raskin, E.L. Konigsburg, and Gennifer Choldenko." —School Library Connection "A wonderful tribute to [Amelia Earhart] who herself came to embody mystery." —Booklist Amelia Earhart's famous aviator goggles go missing and eleven-year-old Millie has to find them before the night is over in this girl-powered middle grade whodunit. Eleven-year-old Amelia Ashford—Millie to her friends (if she had any, that is)—doesn't realize just how much adventure awaits her when she's given the opportunity of a lifetime: to spend the night in Amelia Earhart's childhood home with five other

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girls. Make that five strangers. But Millie's mom is a pilot like the famous Amelia, and Millie would love to have something to write to her about...if only she had her address. Once at Amelia's house in Atchison, Kansas, Millie stumbles upon a display of Amelia's famous flight goggles. She can't believe her good luck, since they're about to be relocated to a fancy museum in Washington, DC. But her luck changes quickly when the goggles disappear, and Millie was the last to see them. Soon, fingers are pointing in all directions, and someone falls strangely ill. Suddenly, a fun night of scavenger hunts and

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sweets takes a nosedive and the girls aren't sure who to trust. With a blizzard raging outside and a house full of suspects, the girls have no choice but to band together. It's up to the Amelia Six to find the culprit and return the goggles to their rightful place. Or the next body to collapse could be one of theirs.

On a Beam of Light
A Story of Albert Einstein
Chronicle Books

"It's perfect for bedtime reading, and one I'm sure kids will ask to have repeated often - and maybe even get inspired by." - iPadinsight
Albert Einstein famously put

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emphasis on the power of imagination and so does Riding on a Beam of Light. When Einstein won the Nobel Prize, he credited his own boyhood idea of riding on a beam of light with the spark that led him to his theory of special relativity. In this intricately illustrated storybook, lights-out turns into learning as we see the world from young Albert Einstein's point of view, with a sense of fascination and adventure reminiscent of Harold from Harold and the Purple Crayon and Max from Where the Wild Things Are. At its heart is a story about imagination and dreaming, with gorgeous illustrations that

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capture our grown-up hearts and our children's curiosity. Can young minds change the world? Einstein proved it and now Riding on a Beam of Light brings that message to kids in terms they can celebrate on their scooter. So, turn the light on and off, discuss the speed of light, and have your child imagining what young Albert Einstein imagined as a child. This is a book parents can begin enjoying before the kids understand language (or physics). "If you want your children to be intelligent, read them fairy tales. If you want them to be more intelligent, read them more fairy tales." -

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Albert Einstein

A 2020 Outstanding Science Trade Book for Students K-12! With an introduction from Neil DeGrasse Tyson about the importance of kid-like curiosity, this lyrical picture book biography on the beloved astrophysicist and host of Cosmos is the perfect gift for young astronomers and fans of all ages. Neil deGrasse Tyson was born curious. And the secrets of a billion galaxies lay there--waiting for him to explore its cosmic mysteries. He just had to look up. Up beyond the city lights, up at the shining stars, up through the Milky Way, and past the veil of

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the night sky. Follow young Neil's journey as he discovers the wonders of space, the thrill of science, and the joy in sharing the beauty of our amazing universe. Read his favorite mind-blowing facts and learn what mysteries are left to solve. From On a Beam of Light author Jennifer Berne and debut paper

illustrator Lorraine Nam comes the inspiring true tale of Neil's life and how he became a world-famous astrophysicist. The future of discovery lays with you. Look up with Neil and begin your own journey into the cosmos.

K-Pax

A Story of Albert Einstein

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The Extraordinary Life of Emily Dickinson

Wilfred Bion's Legacy to Psychoanalysis

Manfish

A Beam of Sunlight in the Deep Forest

"You either love Andrea Camilleri or you haven't read him yet. Each novel in this wholly addictive, entirely magical series, set in Sicily and starring a detective unlike any other in crime fiction, blasts the brain like a shot of pure oxygen -- altogether transporting. Long live Camilleri, and long live Montalbano." A.J. Finn, #1 New York Times bestselling author of *The Woman in the Window* "In Sicily, where people do things as they please, Inspector Salvo Montalbano is a bona fide folk hero."--The

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New York Times Book Review When Inspector Montalbano falls under the charms of beautiful gallery owner Marian, his longtime relationship with Livia comes under threat. Meanwhile, he is also troubled by a strange dream as three crimes demand his attention: the assault and robbery of a wealthy merchant's young wife, shady art deals, and a search for arms traffickers that leads him deep into the countryside, where the investigation takes a tragic turn.

A boy rides a bicycle down a dusty road. But in his mind, he envisions himself traveling at a speed beyond imagining, on a beam of light. This brilliant mind will one day offer up some of the most revolutionary ideas ever conceived.

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Full color.

For Einstein, 1905 was a remarkable year. It was also a miraculous year for the history and future of science. In six short months, he published five papers that would transform our understanding of nature. This unparalleled period is the subject of Rigden's book, which deftly explains what distinguishes 1905 from all other years in the annals of science, and elevates Einstein above all other scientists of the twentieth century.

Psychiatrist Gene Brewer doesn't have a diagnosis for the mysterious new patient who calls himself "prot" (rhymes with goat). But this strange and likeable man cannot be--as he claims--from the planet K-PAX. Or can he? Prot knows

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facts about space that are confounding the experts. He is soon revealing Dr. Brewer's own deepest pains and most sublime longings. And his tales of K-PAX have other patients competing to go along with him when he heads "home". Now the doctor is racing the clock to find prot's true identity before he losses a man whose "madness" might just save them all. . . . Published in a dozens countries with movie rights sold to the producer of Field of Dreams, K-PAX has touched the hearts and expanded the horizons of readers around the world. It promises to join Robert Heinlein's classic Stranger in a Strange Land as a moving, thought-provoking masterpiece of modern-day fiction.

Blade of Light

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Look Up with Me

A Beam of Light

The Tree Lady

The Unbearable Lightness of Being

King of Bangkok

When *The Unbearable Lightness of Being* was first published in English, it was hailed as "a work of the boldest mastery, originality, and richness" by critic Elizabeth Hardwick and named one of the best books of 1984 by the *New York Times Book Review*. It went on to win the *Los Angeles Times Book Prize for Fiction* and

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quickly became an international bestseller. Twenty years later, the novel has established itself as a modern classic. To commemorate the anniversary of its first English-language publication, HarperCollins is proud to offer a special hardcover edition. A young woman in love with a man torn between his love for her and his incorrigible womanizing; one of his mistresses and her humbly faithful lover -- these are the two couples whose story is told in this masterful novel. Controlled by day, Tereza's jealousy

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awakens by night, transformed into ineffably sad death-dreams, while Tomas, a successful surgeon, alternates loving devotion to the dependent Tereza with the ardent pursuit of other women. Sabina, an independent, free-spirited artist, lives her life as a series of betrayals -- of parents, husband, country, love itself -- whereas her lover, the intellectual Franz, loses all because of his earnest goodness and fidelity. In a world in which lives are shaped by irrevocable choices and by fortuitous events, a world in which

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everything occurs but once, existence seems to lose its substance, its weight. Hence we feel, says the novelist, "the unbearable lightness of being" -- not only as the consequence of our private acts but also in the public sphere, and the two inevitably intertwine. This magnificent novel encompasses the extremes of comedy and tragedy, and embraces, it seems, all aspects of human existence. It juxtaposes geographically distant places (Prague, Geneva, Paris, Thailand, the United States, a forlorn Bohemian village);

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brilliant and playful reflections (on "eternal return," on kitsch, on man and animals -- Tomas and Tereza have a beloved doe named Karenin); and a variety of styles (from the farcical to the elegiac) to take its place as perhaps the major achievement of one of the world's truly great writers.

Starred review. 'Richly imagined, beautifully designed, impressionistic...'
- School Library Journal

The author surveys Bion's publications and elaborates on his key contributions in

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depth while also critiquing them. The scope of this work is to synopsise, synthesise, and extend Bion's works in a reader-friendly manner. The book presents his legacy - his most important ideas for psychoanalysis. These ideas need to be known by the mental health profession at large. This work highlights and defines the broader and deeper implications of his works. It presents his ideas faithfully and also uses his ideas as "launching pads" for the author's conjectures about where his ideas point.

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When I looked up, I shivered. How many stars were in the sky? A million? A billion? Maybe the number was as big as infinity. I started to feel very, very small. How could I even think about something as big as infinity? Uma can't help feeling small when she peers up at the night sky. She begins to wonder about infinity. Is infinity a number that grows forever? Is it an endless racetrack? Could infinity be in an ice cream cone? Uma soon finds that the ways to think about this big idea may just be . . . infinite.

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The Physics of Music and Color

Einstein For Dummies

Einstein 1905

The True Story of How One Tree-Loving Woman Changed a City Forever (with audio recording)

Twentieth Anniversary Edition

On Wings of Words

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in

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mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has

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been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. VOLUME III Unit 1: Optics Chapter 1: The Nature of Light Chapter 2: Geometric Optics and Image Formation Chapter 3: Interference Chapter 4:

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*Diffraction Unit 2: Modern Physics Chapter 5: Relativity
Chapter 6: Photons and Matter Waves Chapter 7: Quantum
Mechanics Chapter 8: Atomic Structure Chapter 9:
Condensed Matter Physics Chapter 10: Nuclear Physics
Chapter 11: Particle Physics and Cosmology*

From science fiction death rays to supermarket scanners, lasers have become deeply embedded in our daily lives and our culture. But in recent decades the standard laser beam has evolved into an array of more specialized light beams with a variety of strange and counterintuitive properties. Some of them have the ability to reconstruct themselves after disruption by an obstacle, while others can bend in

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complicated shapes or rotate like a corkscrew. These unusual optical effects open new and exciting possibilities for science and technology. For example, they make possible microscopic tractor beams that pull objects toward the source of the light, and they allow the trapping and manipulation of individual molecules to construct specially-tailored nanostructures for engineering or medical use. It has even been found that beams of light can produce lines of darkness that can be tied in knots. This book is an introductory survey of these specialized light beams and their scientific applications, at a level suitable for undergraduates with a basic knowledge of optics and

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quantum mechanics. It provides a unified treatment of the subject, collecting together in textbook form for the first time many topics currently found only in the original research literature.

While backpacking in the desert, thirteen-year-old Mark falls into a tube of blue light and is transported into a more primitive world, where he must use his knowledge and skills to survive.

This undergraduate textbook aids readers in studying music and color, which involve nearly the entire gamut of the fundamental laws of classical as well as atomic physics. The objective bases for these two subjects are, respectively,

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sound and light. Their corresponding underlying physical principles overlap greatly: Both music and color are manifestations of wave phenomena. As a result, commonalities exist as to the production, transmission, and detection of sound and light. Whereas traditional introductory physics textbooks are styled so that the basic principles are introduced first and are then applied, this book is based on a motivational approach: It introduces a subject with a set of related phenomena, challenging readers by calling for a physical basis for what is observed. A novel topic in the first edition and this second edition is a non-

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they provide the basis for the propagation of electromagnetic waves, of light in particular. The book provides details for the calculation of color coordinates and luminosity from the spectral intensity of a beam of light as well as the relationship between these coordinates and the color coordinates of a color monitor. The second edition contains corrections to the first edition, the addition of more than ten new topics, new color figures, as well as more than forty new sample problems and end-of-chapter problems. The most notable additional topics are: the identification of two distinct spectral intensities and how they are related, beats in the sound from a Tibetan bell, AM and FM radio,

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the spectrogram, the short-time Fourier transform and its relation to the perception of a changing pitch, a detailed analysis of the transmittance of polarized light by a Polaroid sheet, brightness and luminosity, and the mysterious behavior of the photon. The Physics of Music and Color is written at a level suitable for college students without any scientific background, requiring only simple algebra and a passing familiarity with trigonometry. The numerous problems at the end of each chapter help the reader to fully grasp the subject.

*The Great Moments That Built A Galaxy Far, Far Away
Introduction to Optical Testing*

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Young Albert Einstein

Physics of Light and Optics (Black & White)

How a Desperate Teacher and a Rowdy Gym Class

Invented Basketball

Mystical Prose Works by Édouard Schuré

How do laser beams propagate? Innovative discoveries involving laser beams and their propagation properties are at the heart of *Laser Beam Propagation: Generation and Propagation of Customized Light*. This book captures the essence of laser beam propagation. Divided into three parts, it explores the fundamentals of how laser beams propagate, and provides novel methods to describe

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and characterize general laser beams. Part one covers the physical optics approach to the propagation of optical waves, the concept of plane waves, the mathematical description of diffraction and Gaussian optics, and adapting the concepts to the single photon level. The book explains the parallels between the paraxial propagation of light beams and the Schrödinger equation in quantum mechanics, and delves into the description of paraxial optics by means of state vectors and operators. It also discusses classical optics and quantum entanglement. Part two focuses on the application of modal decomposition to the characterization of laser beams, and provides a

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characterization of time domain pulses. It discusses tools for the temporal characterization of laser beams, the generation of arbitrary laser beams with digital holograms, and the use of spatial light modulators to display reconfigurable digital holograms capable of modifying and shaping laser beams. It also covers various techniques and the control of the polarization properties of light. Part three defines the most commonly generated shaped light, flat-top beams, outlining their propagation rules as well as the means to create them in the laboratory. It also highlights Helmholtz-Gauss beams, vector beams, and low coherence laser beams. The text presents the concepts of coherence theory and

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applies this to the propagation of low coherence optical fields. It also considers the recent developments in orbital angular momentum carrying fields, touches on basic properties, definitions and applications, and brings together the classical and quantum concepts of spatial modes of light.

Albert Einstein: Riding on a Beam of Light

Fun Experiments with Optics

The Amelia Six

A Beam of Intense Darkness