

## Dear Professor Dyson Twenty Years Of Correspondence Between Freeman Dyson And Undergraduate Students On Science Technology Society And Life

Professor Freeman Dyson, a great physicist, thinker and futurist, has been very active in scientific, literary and public policy activities throughout his career. As a tribute to him on the occasion of his 90th birthday and to celebrate his lifelong contributions in physics, mathematics, astronomy, nuclear engineering and global warming, a conference covering a wide range of topics was held in Singapore from 26 to 29 August 2013. Distinguished scientists from around the world, including Nobel Laureate Professor David Gross, joined Professor Dyson in the celebration with a festival of lectures. This memorable volume collects an interesting lecture by Professor Dyson, *Is a Graviton Detectable?*, contributions by speakers at the conference, as well as guest contributions by colleagues who celebrated Dyson's birthday at Rutgers University and Institute for Advanced Study in Princeton. About Freeman Dyson Freeman John Dyson FRS, born December 15, 1923, is an eminent English-born American physicist, mathematician, and futurist. He is famous for his work in quantum electrodynamics, solid-state physics, mathematics, astronomy and nuclear engineering, as well as a renowned and best-selling author. He has spent most of his life as a professor of physics at the Institute for Advanced Study in Princeton, taking time off to advise the US government and write books for the public. He has won numerous notable awards including the Enrico Fermi Award, Templeton Prize, Wolf Prize, Pomeranchuk Prize, and Henri Poincaré Prize. Contents: Invited Lectures: *Is a Graviton Detectable?* (F Dyson) *Dark Energy and Dark Matter in a Superfluid Universe* (K Huang) *Scaling the Universe* (N E Frankel) *The Relativity of Space–Time–Property* (R Delbourgo) *Monopole Condensation and Mass Gap in SU(3) QCD* (Y M Cho) *Quantum Structure of Field Theory and Standard Model Based on Infinity-Free Loop Regularization/Renormalization* (Y-L Wu) *Tenth-Order QED Contribution to the Electron  $g - 2$  and High Precision Test of Quantum Electrodynamics* (T Kinoshita) *The MoEDAL Experiment at the LHC — A New Light on the High Energy Frontier* (J L Pinfold) *Leptonic CP Violation and Leptogenesis* (S T Petcov) *What If the Higgs Has Brothers?* (N-P Chang) *Heisenberg Uncertainty Relation Revisited — Universality of Robertson's Relation* (K Fujikawa) *Quantum Systems Based Upon Galois Fields — From Sub-Quantum to Super-Quantum Correlations* (L-N Chang, Z Lewis, D Minic and T Takeuchi) *A Solvable Model of Interacting Many Body Systems Exhibiting a Breakdown of the Boltzmann Equation* (B H J McKellar) *Yang–Baxter Equation, Majorana Fermions and Three Body Entangling States Quantum Entanglements and Applications to Physics* (M-L Ge, L W Yu, K Xue and Q Zhao) *Overview of the Study of Complex Shapes of Fluid Membranes, the Helfrich Model and New Applications* (Z-C Ou-Yang and Z C Tu) *The Importance of Being Integrable: Out of the Paper, into the Lab* (M T Batchelor) *Freeman in 1948* (C DeWitt-Morette) *Carbon Humanism: Freeman Dyson and the Looming Battle Between Environmentalists and Humanists* (P F Schewe) *'Dear Professor Dyson': Twenty Years of Correspondence Between Professor Dyson and Undergraduate Students* (D E Neuenschwander) *Freeman Dyson: Some Early Recollections* (M Longuet-Higgins) *Guest Contributions: Stability and Variability* (J L Lebowitz) *Freeman Dyson* (E H Lieb) *Why Has Global Warming Paused?* (W Happer) *Parallel Session: Deformed Coherent State for Multiparticle Production Mechanism* (W Y Wang, Q Leong, W K Ng, A Dewanto, A H Chan and C H Oh) *Noncommutative Space-Time from Quantized Twistors* (J Lukierski and M Woronowicz) *Similarity Solutions of Fokker–Planck Equations with Time-Dependent Coefficients and Fixed/Moving Boundaries* (C-L Ho) *Fermion Quantum Field Theory in Black Hole Spacetimes and Information Loss* (S A B Ahmad) *MESTIF — A Study of the Characteristics of Matter-Energy, Space-Time and Information-Field* (J A K Tan) *Superluminal Propagation and Acausality of Nonlinear Massive Gravity* (S Deser, K Izumi, Y C Ong and A Waldron) *An Astronomer's View on Climate Change* (D C Morton) *A Quantum Fluctuation Operator for Deep N-Well MOSFET Flicker Noise Modeling* (E Png) *Yang–Mills Field as a Subset of Covariant Derivative — A Unified Yang–Mills Field and Higgs Field* (W S Gan) *The DGP Model Revisited* (K F Ng and S C C Ng) *A Search for Primordial Vortex Remnants in the SDSS* (A Yang, Z-J Ong and A H Chan) *The High-Redshift Galaxy Counts-in-Cells from the COSMOS Survey* (F F Foo, A Yang and A H Chan) *Fundamental Constraints on Physical Systems Due to Their Own Gravitation* (S K Kauffmann) *Freeman Dyson and Gravitational Spin Precession* (N D Hari Dass) *Readership: Academics and students interested in high energy physics, astrophysics, cosmology, and condensed matter physics.*

Keywords: Freeman Dyson; Quantum Field Theory; High Energy Physics; Cosmology; Graviton; Topological Insulator

- What unspeakable horror glimpsed in the basement of a private library in West Yorkshire drove a man to madness and an early grave?
- What led to an underground echo chamber in a Manchester recording studio being sealed up for good?
- What creature walks the endless sands of Lancashire's Fleetwood Bay, and what connects it to an unmanned craft washed ashore in Port Elizabeth, nearly six thousand miles away?

In 2009 Jeremy Dyson was contacted by a journalist wanting help bringing together accounts of true life ghost stories from across the British Isles. The *Haunted Book* chronicles the journey Dyson, formerly a hardened sceptic, went on to uncover the truth behind these tales.

With a new preface by the author. Ten years after his murder, Tupac Shakur is even more loved, contested, and celebrated than he was in life. His posthumously released albums, poetry, and motion pictures have catapulted him into the upper echelon of American cultural icons. In *Holler If You Hear Me*, “hip-hop intellectual” Michael Eric Dyson, acclaimed author of the bestselling *Is Bill Cosby Right?*, offers a wholly original way of looking at Tupac that will thrill those who already love the artist and enlighten those who want to understand him.

A letter to Emmett Till, an excerpt from Dyson's longer work, *Long Time Coming*, a passionate call to America to finally reckon with race and start the journey to redemption. As Dyson notes: "Rarely has the tragic fact of Black death been as urgently in need of interpretation and engagement as in this moment."

A *New York Times* Best Seller Merging real stories with theory, research, and practice, a prominent scholar offers a new approach to teaching and learning for every stakeholder in urban education. Drawing on his own experience of feeling

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undervalued and invisible in classrooms as a young man of color and merging his experiences with more than a decade of teaching and researching in urban America, award-winning educator Christopher Emdin offers a new lens on an approach to teaching and learning in urban schools. *For White Folks Who Teach in the Hood...and the Rest of Y'all Too* is the much-needed antidote to traditional top-down pedagogy and promises to radically reframe the landscape of urban education for the better. He begins by taking to task the perception of urban youth of color as unteachable, and he challenges educators to embrace and respect each student's culture and to reimagine the classroom as a site where roles are reversed and students become the experts in their own learning. Putting forth his theory of Reality Pedagogy, Emdin provides practical tools to unleash the brilliance and eagerness of youth and educators alike—both of whom have been typecast and stymied by outdated modes of thinking about urban education. With this fresh and engaging new pedagogical vision, Emdin demonstrates the importance of creating a family structure and building communities within the classroom, using culturally relevant strategies like hip-hop music and call-and-response, and connecting the experiences of urban youth to indigenous populations globally. Merging real stories with theory, research, and practice, Emdin demonstrates how by implementing the “Seven C’s” of reality pedagogy in their own classrooms, urban youth of color benefit from truly transformative education. *For White Folks Who Teach in the Hood...and the Rest of Y'all Too* has been featured in *MotherJones.com*, *Education Week*, *Weekend All Things Considered* with Michel Martin, *Diverse: Issues in Higher Education*, *PBS NewsHour.com*, *Slate*, *The Washington Post*, *Scholastic Administrator Magazine*, *Essence Magazine*, *Salon*, *ColorLines*, *Ebony.com*, *Huffington Post Education*

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The first full length biography of Dirac, one of the most brilliant physicists of the twentieth century.

From the New York Times bestselling author of *Tears We Cannot Stop*, a passionate call to America to finally reckon with race and start the journey to redemption. This eBook edition includes nine illustrations of George Floyd, Breonna Taylor and Emmett Till, among other victims of racial violence, by artist Everett Dyson. “Antiracist demonstrations have been like love notes to the martyrs of racist terror and anti-Blackness. Michael Eric Dyson writes out these love notes in this powerfully illuminating, heart-wrenching, and enlightening book. *Long Time Coming* is right on time.” —Ibram X. Kendi, bestselling author of *How to Be an Antiracist* “Crushingly powerful, *Long Time Coming* is an unfiltered Marlboro of black pain.” —Isabel Wilkerson, author of *Caste: The Origins of Our Discontents* “Formidable, compelling...has much to offer on our nation’s crucial need for racial reckoning and the way forward.” —Bryan Stevenson, author of *Just Mercy* The night of May 25, 2020 changed America. George Floyd, a 46-year-old Black man, was killed during an arrest in Minneapolis when a white cop suffocated him. The video of that night’s events went viral, sparking the largest protests in the nation’s history and the sort of social unrest we have not seen since the sixties. While Floyd’s death was certainly the catalyst, (heightened by the fact that it occurred during a pandemic whose victims were disproportionately of color) it was in truth the fuse that lit an ever-filling powder keg. *Long Time Coming* grapples with the cultural and social forces that have shaped our nation in the brutal crucible of race. In five beautifully argued chapters—each addressed to a black martyr from Breonna Taylor to Rev. Clementa Pinckney—Dyson traces the genealogy of anti-blackness from the slave ship to the street corner where Floyd lost his life—and where America gained its will to confront the ugly truth of systemic racism. Ending with a poignant plea for hope, Dyson’s exciting new book points the way to social redemption. *Long Time Coming* is a necessary guide to help America finally reckon with race.

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Spanning the years from World War II, when he was a civilian statistician in the operations research section of the Royal Air Force Bomber Command, through his studies with Hans Bethe at Cornell University, his early friendship with Richard Feynman, and his postgraduate work with J. Robert Oppenheimer, Freeman Dyson has composed an autobiography unlike any other. Dyson evocatively conveys the thrill of a deep engagement with the world—be it as scientist, citizen, student, or parent. Detailing a unique career not limited to his groundbreaking work in physics, Dyson discusses his interest in minimizing loss of life in war, in disarmament, and even in thought experiments on the expansion of our frontiers into the galaxies.

Major New York Times bestseller Winner of the National Academy of Sciences Best Book Award in 2012 Selected by the New York Times Book Review as one of the ten best books of 2011 A Globe and Mail Best Books of the Year 2011 Title One of The Economist's 2011 Books of the Year One of The Wall Street Journal's Best Nonfiction Books of the Year 2011 2013 Presidential Medal of Freedom Recipient Kahneman's work with Amos Tversky is the subject of Michael Lewis's *The Undoing Project: A Friendship That Changed Our Minds* In the international bestseller, *Thinking, Fast and Slow*, Daniel Kahneman, the renowned psychologist and winner of the Nobel Prize in Economics, takes us on a groundbreaking tour of the mind and explains the two systems that drive the way we think. System 1 is fast, intuitive, and emotional; System 2 is slower, more deliberative, and more logical. The impact of overconfidence on corporate strategies, the difficulties of predicting what will make us happy in the future, the profound effect of cognitive biases on everything from playing the stock market to planning our next vacation—each of these can be understood only by knowing how the two systems shape our judgments and decisions. Engaging the reader in a lively conversation about how we think, Kahneman reveals where we can and cannot trust our intuitions and how we can tap into the benefits of slow thinking. He offers practical and enlightening insights into how choices are made in both our business and our personal lives—and how we can use different techniques to guard against the mental glitches that often get us into trouble. Winner of the National Academy of Sciences Best Book Award and the Los Angeles Times Book Prize and selected by The New York Times Book Review as one of the ten best books of 2011, *Thinking, Fast and Slow* is destined to be a classic.

Full of "can't look away" moments, *Dear Killer* is a psychological thriller perfect for fans of gritty realistic fiction such as Dan Wells's *I Am Not a Serial Killer* and Jay Asher's *Thirteen Reasons Why*, as well as television's *Dexter*. Rule One—Nothing is right, nothing is wrong. Kit looks like your average seventeen-year-old high school student, but she has a secret—she's London's notorious "Perfect Killer." She chooses who to murder based on letters left in a secret mailbox, and she's good—no, perfect—at what she does. Her moral nihilism—the fact that she doesn't believe in right and wrong—makes being a serial killer a whole lot easier . . . until she breaks her own rules by befriending someone she's supposed to murder, as well as the detective in charge of the Perfect Killer case. As New York Times bestselling author of the *Gone* series Michael Grant says, *Dear Killer* is "shocking, mesmerizing, and very smart."

NOW A NEW YORK TIMES, PUBLISHER'S WEEKLY, INDIEBOUND, LOS ANGELES TIMES, WASHINGTON POST, CHRONICLE HERALD, SALISBURY POST, GUELPH MERCURY TRIBUNE, AND BOSTON GLOBE BESTSELLER | NAMED A BEST/MOST ANTICIPATED BOOK OF 2017 BY: The Washington Post • Bustle • Men's Journal • The Chicago Reader • StarTribune • Blavity • The Guardian • NBC New York's Bill's Books • Kirkus • Essence "One of the most frank and searing discussions on race ... a deeply serious, urgent book, which should take its place in the tradition of Baldwin's *The Fire Next Time* and King's *Why We Can't Wait*." —The New York Times Book Review Toni Morrison hails *Tears We Cannot Stop* as "Elegantly written and powerful in several areas: moving personal recollections; profound cultural analysis; and guidance for moral redemption. A work to relish." Stephen King says: "Here's a sermon that's as fierce as it is lucid...If you're black, you'll feel a spark of recognition in every paragraph. If you're white, Dyson tells you what you need to know—what this white man needed to know, at least. This is a major achievement. I read it and said amen." Short, emotional, literary, powerful—*Tears We Cannot Stop* is the book that all Americans who care about the current and long-burning crisis in race relations will want to read. As the country grapples with racist division at a level not seen since the 1960s, one man's voice soars above the rest with conviction and compassion. In his 2016 New York Times op-ed piece "Death in Black and White," Michael Eric Dyson moved a nation. Now he continues to speak out in *Tears We Cannot Stop*—a provocative and deeply personal call for change. Dyson argues that if we are to make real racial progress we must face difficult truths, including being honest about how black grievance has been ignored, dismissed, or discounted. "The time is at hand for reckoning with the past, recognizing the truth of the present, and moving together to redeem the nation for our future. If we don't act now, if you don't address race immediately, there very well may be no future."

Other refinements in the new edition include an enlarged biography of Emmy Noether's life and work, parallels drawn between the present approach and Noether's original 1918 paper, and a summary of the logic behind Noether's theorem.

What Hurricane Katrina reveals about the fault lines of race and poverty in America—and what lessons we must take from the flood— from best-selling "hip-hop intellectual" Michael Eric Dyson Does George W. Bush care about black people? Does the rest of America? When Hurricane Katrina tore through New Orleans and the Gulf Coast, hundreds of thousands were left behind to suffer the ravages of destruction, disease, and even death. The majority of these people were black; nearly all were poor. The federal government's slow response to local appeals for help is by now notorious. Yet despite the cries of outrage that have mounted since the levees broke, we have failed to confront the disaster's true lesson; to be poor, or black, in today's ownership society, is to be left behind. Displaying the intellectual rigor, political passion, and personal empathy that have won him fans across the color line, Michael Eric Dyson offers a searing assessment of the meaning of Hurricane Katrina. Combining interviews with survivors of the disaster with his deep knowledge of black migrations and government policy over decades, Dyson provides the historical context that has been sorely missing from public conversation. He explores the legacy of black suffering in America since slavery, including the shocking ways that black people are framed in the national consciousness even today. With this call-to-action, Dyson warns us that we can only find redemption as a society if we acknowledge that Katrina was more than an engineering or emergency response failure. From the TV newsroom to the Capitol Building to the backyard, we must change the ways we relate to the black and the poor among us. What's at stake is no less than the future of democracy.

In this sequel to *The Scientist as Rebel* (2006), Freeman Dyson—whom The Times of London calls "one of the world's most original minds"—celebrates openness to unconventional ideas and "the spirit of joyful dreaming" in which he believes that science should be pursued. Throughout these essays, which range from the creation of the Royal Society in the seventeenth century to the scientific inquiries of the Romantic generation to recent books by Daniel Kahneman and Malcolm Gladwell, he seeks to "break down the barriers that separate science from other sources of human wisdom." Dyson discusses twentieth-century giants of

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physics such as Richard Feynman, J. Robert Oppenheimer, Paul Dirac, and Steven Weinberg, many of whom he knew personally, as well as Winston Churchill's pursuit of nuclear weapons for Britain and Wernher von Braun's pursuit of rockets for space travel. And he takes a provocative, often politically incorrect approach to some of today's most controversial scientific issues: global warming, the current calculations of which he thinks are probably wrong; the future of biotechnology, which he expects to dominate our lives in the next half-century as the tools to design new living creatures become available to everyone; and the flood of information in the digital age. Dyson offers fresh perspectives on the history, the philosophy, and the practice of scientific inquiry—and even on the blunders, the wild guesses and wrong theories that are also part of our struggle to understand the wonders of the natural world.

White Americans have long been comfortable in the assumption that they are the cultural norm. Now that notion is being challenged, as white people wrestle with what it means to be part of a fast-changing, truly multicultural nation. Facing chronic economic insecurity, a popular culture that reflects the nation's diverse cultural reality, a future in which they will no longer constitute the majority of the population, and with a black president in the White House, whites are growing anxious. This anxiety has helped to create the Tea Party movement, with its call to "take our country back." By means of a racialized nostalgia for a mythological past, the Right is enlisting fearful whites into its campaign for reactionary social and economic policies. In urgent response, Tim Wise has penned his most pointed and provocative work to date. Employing the form of direct personal address, he points a finger at whites' race-based self-delusion, explaining how such an agenda will only do harm to the nation's people, including most whites. In no uncertain terms, he argues that the hope for survival of American democracy lies in the embrace of our multicultural past, present and future. "Sparing neither family nor self...he considers how the deck has always been stacked in his and other white people's favor...His candor is invigorating."—Publishers Weekly "One of the most brilliant, articulate and courageous critics of white privilege in the nation."—Michael Eric Dyson "Tim Wise has written another blockbuster! His new book, *Dear White America: Letter to a New Minority*, is a cogent analysis of the problems of race and inequality as well as a plea for those who harbor views about race and racism to modify and indeed eliminate them. While the book's title addresses white people, this is really a book for anyone who is concerned about eliminating the issue of racial disparity in our society. This is must read and a good read."—Charles J. Ogletree, Jr., the Jesse Climenko Professor of Law at Harvard Law School and the Executive Director of the Charles Hamilton Houston Institute for Race and Justice. He is the author of a number of books, including *The Presumption of Guilt: The Arrest of Henry Louis Gates, Jr.* and *Race, Class and Crime in America* "Tim Wise is an American hero in the truest sense of the term—he tells the truth, no matter how inconvenient that truth might be. *Dear White America* is a desperately needed response to the insidious mythology that pretends whites are oppressed and people of color unduly privileged. In the process, it exposes how new forms of racism have been deliberately embedded into our supposedly 'color blind' culture. Read this book—but rest assured, it's not for the faint of heart."—David Sirota, syndicated columnist, radio host, author of *Back to Our Future: How the 1980s Explain the World We Live In Now* "The foremost white analyst of racism in America never fails to provide fresh takes as he punctures myths and defenses."—World Wide Work Tim Wise is one of the most prominent antiracist essayists, educators, and activists in the United States. He is regularly interviewed by A-list media, including CNN, C-SPAN, The Tavis Smiley Show, The Tom Joyner Morning Show, Michael Eric Dyson's radio program, and many more. His most recent books include *Colorblind* and *Between Barack and a Hard Place*.

An Emma Watson "Our Shared Shelf" Selection for November/December 2018 • NAMED A BEST BOOK OF 2018 BY: The New York Public Library • Mashable • The Atlantic • Bustle • The Root • NPR • Fast Company ("10 Best Books for Battling Your Sexist Workplace") Rebecca Solnit, *The New Republic*: "Funny, wrenching, pithy, and pointed." Roxane Gay: "I encourage you to check out *Eloquent Rage* out now." Joy Reid, *Cosmopolitan*: "A dissertation on black women's pain and possibility." America Ferrera: "Razor sharp and hilarious. There is so much about her analysis that I relate to and grapple with on a daily basis as a Latina feminist." Damon Young: "Like watching the world's best Baptist preacher but with sermons about intersectionality and Beyoncé instead of Ecclesiastes." Melissa Harris Perry: "I was waiting for an author who wouldn't forget, ignore, or erase us black girls...I was waiting and she has come in Brittney Cooper." Michael Eric Dyson: "Cooper may be the boldest young feminist writing today...and she will make you laugh out loud." So what if it's true that Black women are mad as hell? They have the right to be. In the Black feminist tradition of Audre Lorde, Brittney Cooper reminds us that anger is a powerful source of energy that can give us the strength to keep on fighting. Far too often, Black women's anger has been caricatured into an ugly and destructive force that threatens the civility and social fabric of American democracy. But Cooper shows us that there is more to the story than that. Black women's eloquent rage is what makes Serena Williams such a powerful tennis player. It's what makes Beyoncé's girl power anthems resonate so hard. It's what makes Michelle Obama an icon. Eloquent rage keeps us all honest and accountable. It reminds women that they don't have to settle for less. When Cooper learned of her grandmother's eloquent rage about love, sex, and marriage in an epic and hilarious front-porch confrontation, her life was changed. And it took another intervention, this time staged by one of her homegirls, to turn Brittney into the fierce feminist she is today. In Brittney Cooper's world, neither mean girls nor fuckboys ever win. But homegirls emerge as heroes. This book argues that ultimately feminism, friendship, and faith in one's own superpowers are all we really need to turn things right side up again. A BEST/MOST ANTICIPATED BOOK OF 2018 BY: Glamour • Chicago Reader • Bustle • Autostraddle

A provocative, lively deep-dive into the meaning of America's first black president and first black presidency, from "one of the most graceful and lucid intellectuals writing on race and politics today" (*Vanity Fair*)

A pair of technology experts describe how humans will have to keep pace with machines in order to become prosperous in the future and identify strategies and policies for business and individuals to use to combine digital processing power with human ingenuity.

Flipping John Howard Griffin's classic *Black Like Me*, and extending Noel Ignatiev's *How The Irish Became White* into the present-day, Wise explores the meanings and consequences of whiteness, and discusses the ways in which racial privilege can harm not just people of color, but also whites. Using stories instead of stale statistics, Wise weaves a narrative that is at once readable and yet scholarly; analytical and yet accessible.

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Arguing that Martin Luther King, Jr., should stand beside the Founding Fathers in terms of his significance to American history, the author serves up a compelling portrait of a personally flawed but nevertheless great leader.

A lifetime of candid reflections from physicist Freeman Dyson, "an acute observer of personality and human foibles" (New York Times Book Review). Written between 1940 and the late 1970s, the postwar recollections of renowned physicist Freeman Dyson have been celebrated as an historic portrait of modern science and its greatest players, including Robert Oppenheimer, Richard Feynman, Stephen Hawking, and Hans Bethe. Chronicling the stories of those who were engaged in solving some of the most challenging quandaries of twentieth-century physics, Dyson lends acute insight and profound observations to a life's work spent chasing what Einstein called those "deep mysteries that Nature intends to keep for herself." Whether reflecting on the drama of World War II, the moral dilemmas of nuclear development, the challenges of the space program, or the demands of raising six children, Dyson's annotated letters reveal the voice of one "more creative than almost anyone else of his generation" (Kip Thorne). An illuminating work in these trying times, *Maker of Patterns* is an eyewitness account of the scientific discoveries that define our modern age. In *The Breakthrough*, veteran journalist Gwen Ifill surveys the American political landscape, shedding new light on the impact of Barack Obama's stunning presidential victory and introducing the emerging young African American politicians forging a bold new path to political power. Ifill argues that the Black political structure formed during the Civil Rights movement is giving way to a generation of men and women who are the direct beneficiaries of the struggles of the 1960s. She offers incisive, detailed profiles of such prominent leaders as Newark Mayor Cory Booker, Massachusetts Governor Deval Patrick, and U.S. Congressman Artur Davis of Alabama (all interviewed for this book), and also covers numerous up-and-coming figures from across the nation. Drawing on exclusive interviews with power brokers such as President Obama, former Secretary of State Colin Powell, Vernon Jordan, the Reverend Jesse Jackson, his son Congressman Jesse Jackson Jr., and many others, as well as her own razor-sharp observations and analysis of such issues as generational conflict, the race/ gender clash, and the "black enough" conundrum, Ifill shows why this is a pivotal moment in American history. *The Breakthrough* is a remarkable look at contemporary politics and an essential foundation for understanding the future of American democracy in the age of Obama.

Profiles one hundred influential African Americans who helped shape the history of the twentieth century, including revered figures in the fields of music, literature, sports, science, politics, and the civil rights movement.

' Freeman Dyson has designed nuclear reactors and bomb-powered spacecraft; he has studied the origins of life and the possibilities for the long-term future; he showed quantum mechanics to be consistent with electrodynamics and started cosmological eschatology; he has won international recognition for his work in science and for his work in reconciling science to religion; he has advised generals and congressional committees. An STS (Science, Technology, Society) curriculum or discussion group that engages topics such as nuclear policies, genetic technologies, environmental sustainability, the role of religion in a scientific society, and a hard look towards the future, would count itself privileged to include Professor Dyson as a class participant and mentor. In this book, STS topics are not discussed as objectified abstractions, but through personal stories. The reader is invited to observe Dyson's influence on a generation of young people as they wrestle with issues of science, technology, society, life in general and our place in the universe. The book is filled with personal anecdotes, student questions and responses, honest doubts and passions. Contents: Walking with Grandfather Living in the Questions A Hexagonal Mountain Martha and Mary Engines With Souls Steered From Afar The Swamp Angel Rapid Rupture Arsenals of Folly To Touch the Face of the Stars Silence The Chainsaw and the White Oak "Why Should I Care?" Playing God Bonds of Kinship Two Windows Doubt and Faith Dreams of Earth and Sky Family First Readership: Students and academicians who are interested in issues related to science, technology and society. Key Features: Removes objective detachment and makes STS issues personal through story-telling: Science, technology and society issues are not merely objects of study; they are experiences, they are choices to be lived. Student real-time responses to Professor Dyson's insights bring the correspondence to life! Includes honest questions that are more important than snappy answers: Few STS issues have black-and-white answers; they are, rather, about understanding the questions. For example, do we own our technology, or does our technology own us? Shows all things are connected: Practically every STS topic, it seems, reduces to values and ethics. STS issues are ultimately about relationships between us and nature, our machines, other species, other people — and ourselves. STS issues are too important to be left to scientists and technologists Keywords: Freeman J Dyson; Disturbing the Universe; Science Technology and Society; Bronowki, Jacob; Astronomical Habitat; Automation; Blake, William; Bomber Command; Car Culture; Chacón, Efrain; Climate Change; Cloning; Cold War; Cosmic Unity; Cosmology; Deforestation; Doubt and Faith; Dickens, Charles; Dyson, Alice; Dyson, Freeman J; Dyson, George; Dyson, Mildred; Einstein, Albert; Evolution; Fundamentalism; Future; Genetic Technologies; Greenhouse Effect; Homogenization of Society; Hydrogen Bomb; Environmental Sustainability; Exponential Growth; Environmental Sustainability; Hubbert's Peak; Kaufmann, Walter; Manhattan Project; Marshall, Joseph III; Masters, Edgar Lee; Mutual Assured Destruction; Native Americans; Nuclear Weapons; Oil Consumption; Pirsig, Robert; Population; Project Orion; Quetzal Education Research Center; Reverence For Life; Schweitzer, Albert; Science And Religion; Silence; Six Faces of Science; Space Exploration; Standing Bear, Luther; Stem Cells; Strategic Air Command; Thoreau, Henry David; Turkle, Sherry; Urban Sprawl; White Oak Model'

The New York Times best-selling book exploring the counterproductive reactions white people have when their assumptions about race are challenged, and how these reactions maintain racial inequality. In this "vital, necessary, and beautiful book" (Michael Eric Dyson), antiracist educator Robin DiAngelo deftly illuminates the phenomenon of white fragility and "allows us to understand racism as a practice not restricted to 'bad people'" (Claudia Rankine). Referring to the defensive moves that white people make when challenged racially, white fragility is characterized by emotions such as anger, fear, and guilt, and by behaviors including argumentation and silence. These behaviors, in turn, function to reinstate white racial equilibrium and prevent any meaningful cross-racial dialogue. In this in-depth exploration, DiAngelo examines how white fragility develops, how it protects racial inequality, and what we can do to engage more constructively.

Understanding tensors is essential for any physics student dealing with phenomena where causes and effects have different directions. A horizontal electric field producing vertical polarization in dielectrics; an unbalanced car wheel wobbling in the vertical plane while spinning about a horizontal axis; an electrostatic field on Earth observed to be a magnetic field by orbiting astronauts—these are some situations where physicists employ tensors. But the true beauty of tensors lies in this fact: When coordinates are transformed from one system to another, tensors change according to the same rules as the coordinates. Tensors, therefore, allow for the convenience of coordinates while also transcending them. This makes tensors the gold standard for expressing physical relationships in physics and geometry. Undergraduate physics majors are typically introduced to tensors in special-case applications. For example, in a classical mechanics course, they meet the "inertia tensor," and in electricity and magnetism, they encounter the "polarization tensor." However, this piecemeal approach can set students up for misconceptions when they have to learn about tensors in more advanced physics and mathematics studies (e.g., while

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enrolled in a graduate-level general relativity course or when studying non-Euclidean geometries in a higher mathematics class). Dwight E. Neuenschwander's Tensor Calculus for Physics is a bottom-up approach that emphasizes motivations before providing definitions. Using a clear, step-by-step approach, the book strives to embed the logic of tensors in contexts that demonstrate why that logic is worth pursuing. It is an ideal companion for courses such as mathematical methods of physics, classical mechanics, electricity and magnetism, and relativity. Dear Professor Dyson Twenty Years of Correspondence Between Freeman Dyson and Undergraduate Students on Science, Technology, Society and Life World Scientific

"Freeman Dyson has designed nuclear reactors and bomb-powered spacecraft; he has studied the origins of life and the possibilities for the long-term future; he showed quantum mechanics to be consistent with electrodynamics and started cosmological eschatology; he has won international recognition for his work in science and for his work in reconciling science to religion; he has advised generals and congressional committees. An STS (Science, Technology, Society) curriculum or discussion group that engages topics such as nuclear policies, genetic technologies, environmental sustainability, the role of religion in a scientific society, and a hard look towards the future, would count itself privileged to include Professor Dyson as a class participant and mentor. In this book, STS topics are not discussed as objectified abstractions, but through personal stories. The reader is invited to observe Dyson's influence on a generation of young people as they wrestle with issues of science, technology, society, life in general and our place in the universe. The book is filled with personal anecdotes, student questions and responses, honest doubts and passions"--

NOW A NEW YORK TIMES, USA TODAY, AND PUBLISHER'S WEEKLY BESTSELLER "Dyson writes with the affection of a fan but the rigor of an academic. ... Using extensive passages from Jay-Z's lyrics, 'Made in America' examines the rapper's role as a poet, an aesthete, an advocate for racial justice and a business man, but devotes much of its energy to Hova the Hustler." —Allison Stewart, The Washington Post "Dyson's incisive analysis of JAY-Z's brilliance not only offers a brief history of hip-hop's critical place in American culture, but also hints at how we can best move forward." —Questlove JAY-Z: Made in America is the fruit of Michael Eric Dyson's decade of teaching the work of one of the greatest poets this nation has produced, as gifted a wordsmith as Walt Whitman, Robert Frost and Rita Dove. But as a rapper, he's sometimes not given the credit he deserves for just how great an artist he's been for so long. This book wrestles with the biggest themes of JAY-Z's career, including hustling, and it recognizes the way that he's always weaved politics into his music, making important statements about race, criminal justice, black wealth and social injustice. As he enters his fifties, and to mark his thirty years as a recording artist, this is the perfect time to take a look at JAY-Z's career and his role in making this nation what it is today. In many ways, this is JAY-Z's America as much as it's Pelosi's America, or Trump's America, or Martin Luther King's America. JAY-Z has given this country a language to think with and words to live by. Featuring a Foreword by Pharrell

Acclaimed for his writings on Malcolm X and Martin Luther King, Jr., as well as his passionate defense of black youth culture, Michael Eric Dyson has emerged as the leading African American intellectual of his generation. Now Dyson turns his attention to one of the most enigmatic figures of the past decade: the slain hip-hop artist Tupac Shakur. Five years after his murder, Tupac remains a widely celebrated, deeply loved, and profoundly controversial icon among black youth. Viewed by many as a "black James Dean," he has attained cult status partly due to the posthumous release of several albums, three movies, and a collection of poetry. But Tupac endures primarily because of the devotion of his loyal followers, who have immortalized him through tributes, letters, songs, and celebrations, many in cyberspace. Dyson helps us to understand why a twenty-five-year-old rapper, activist, poet, actor, and alleged sex offender looms even larger in death than he did in life. With his trademark skills of critical thinking and storytelling, Dyson examines Tupac's hold on black youth, assessing the ways in which different elements of his persona—thug, confused prophet, fatherless child—are both vital and destructive. At once deeply personal and sharply analytical, Dyson's book offers a wholly original way of looking at Tupac Shakur that will thrill those who already love the artist and enlighten those who want to understand him. "In the tradition of jazz saxophonists John Coltrane and Charlie Parker, Dyson riffs with speed, eloquence, bawdy humor, and startling truths that have the effect of hitting you like a Mack truck."—San Francisco Examiner "Such is the genius of Dyson. He flows freely from the profound to the profane, from popular culture to classical literature."—Washington Post "A major American thinker and cultural critic."—Philadelphia Inquirer "Among the young black intellectuals to emerge since the demise of the civil rights movement... undoubtedly the most insightful and thought-provoking is Michael Eric Dyson."—Manning Marable, Director of African American Studies, Columbia University

Named a 2018 Notable Work of Nonfiction by The Washington Post NOW A NEW YORK TIMES BESTSELLER • Winner, The 2018 Southern Book Prize NAMED A BEST/MOST ANTICIPATED BOOK OF 2018 BY: Chicago Tribune • Time • Publisher's Weekly A stunning follow up to New York Times bestseller Tears We Cannot Stop The Washington Post: "Passionately written." Chris Matthews, MSNBC: "A beautifully written book." Shaun King: "I kid you not—I think it's the most important book I've read all year..." Harry Belafonte: "Dyson has finally written the book I always wanted to read...a tour de force." Joy-Ann Reid: A work of searing prose and seminal brilliance... Dyson takes that once in a lifetime conversation between black excellence and pain and the white heroic narrative, and drives it right into the heart of our current politics and culture, leaving the reader reeling and reckoning." Robin D. G. Kelley: "Dyson masterfully refracts our present racial conflagration... he reminds us that Black artists and intellectuals bear an awesome responsibility to speak truth to power." President Barack Obama: "Everybody who speaks after Michael Eric Dyson pales in comparison." In 2015 BLM activist Julius Jones confronted Presidential candidate Hillary Clinton with an urgent query: "What in your heart has changed that's going to change the direction of this country?" "I don't believe you just change hearts," she protested. "I believe you change laws." The fraught conflict between conscience and politics – between morality and power – in addressing race hardly began with Clinton. An electrifying and traumatic encounter in the sixties crystallized these furious disputes. In 1963 Attorney General Robert Kennedy sought out James Baldwin to explain the rage that threatened to engulf black America. Baldwin brought along some friends, including playwright Lorraine Hansberry, psychologist Kenneth Clark, and a valiant activist, Jerome Smith. It was Smith's relentless, unfiltered fury that set Kennedy on his heels, reducing him to sullen silence. Kennedy walked away from the nearly three-hour meeting angry – that the black folk assembled didn't understand politics, and that they weren't as easy to talk to as Martin Luther King. But especially that they were more interested in witness than policy. But Kennedy's anger quickly gave way to empathy, especially for Smith. "I guess if I were in his shoes...I might feel differently about this country." Kennedy set about changing policy – the meeting having transformed his thinking in fundamental ways. There was more: every big argument about race that persists to this day got a hearing in that room. Smith declaring that he'd never fight for his country given its racist tendencies, and Kennedy being appalled at such lack of patriotism, tracks the disdain for black dissent in our own time. His belief that black folk were ungrateful for the Kennedys' efforts to make things better shows up in our day as the charge that black folk wallow in the politics of ingratitude and victimhood. The contributions of black queer folk to racial progress still cause a stir. BLM has been accused of harboring a covert queer agenda. The immigrant experience, like that of Kennedy – versus the racial experience of Baldwin – is a cudgel to excoriate black folk for lacking hustle and ingenuity. The questioning of whether folk who are interracially partnered can authentically communicate black interests persists. And we grapple still with the responsibility of black intellectuals and artists to bring about social change. What Truth Sounds Like exists at the tense intersection of the conflict between politics and prophecy – of whether we embrace political resolution or moral redemption to fix our fractured racial landscape. The future of race and democracy hang in the balance.

The author writes an open "love letter" to the African-American women in his life, proclaiming his adoration and respect for women of color in America. 100,000 first printing.

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From Galileo to today's amateur astronomers, scientists have been rebels, writes Freeman Dyson. Like artists and poets, they are free spirits who resist the restrictions their cultures impose on them. In their pursuit of nature's truths, they are guided as much by imagination as by reason, and their greatest theories have the uniqueness and beauty of great works of art. Dyson argues that the best way to understand science is by understanding those who practice it. He tells stories of scientists at work, ranging from Isaac Newton's absorption in physics, alchemy, theology, and politics, to Ernest Rutherford's discovery of the structure of the atom, to Albert Einstein's stubborn hostility to the idea of black holes. His descriptions of brilliant physicists like Edward Teller and Richard Feynman are enlivened by his own reminiscences of them. He looks with a skeptical eye at fashionable scientific fads and fantasies, and speculates on the future of climate prediction, genetic engineering, the colonization of space, and the possibility that paranormal phenomena may exist yet not be scientifically verifiable. Dyson also looks beyond particular scientific questions to reflect on broader philosophical issues, such as the limits of reductionism, the morality of strategic bombing and nuclear weapons, the preservation of the environment, and the relationship between science and religion. These essays, by a distinguished physicist who is also a prolific writer, offer informed insights into the history of science and fresh perspectives on contentious current debates about science, ethics, and faith.

The best-selling Motown artist of all time, Marvin Gaye defined the hopes and shattered dreams of an entire generation. Twenty years after his tragic death—he was shot by his father—his relevance persists because of the indelible mark his outsized talent left on American culture. A transcendent performer whose career spanned the history of rhythm and blues, from doo-wop to the sultriest of soul music, Gaye's artistic scope and emotional range set the soundtrack for America's tumultuous coming of age in the 1970s. Michael Eric Dyson's searching narrative illuminates Marvin Gaye's stellar ascendance—from a black church in Washington, D.C., to the artistic peak of *What's Going On?*—and charts his sobering personal decline. Dyson draws from interviews with those closest to Gaye to paint an intimate portrait of the tensions and themes that shaped contemporary urban America: racism, drug abuse, economic adversity, and the long legacy of hardship. Gaye's stormy relationships with women, including duet partner Tammi Terrell and wives Anna Gordy and Janis Hunter, are examined in light of the sexual revolution of the 1960s and 1970s. Dyson also considers family violence in the larger context of the African-American life and how that heartbreaking legacy resulted in Gaye's murder. *Mercy, Mercy, Me* is an unforgettable portrait of a beloved black genius whose art is reflected in the dynamism of contemporary urban America.

#1 NEW YORK TIMES BESTSELLER • NATIONAL BOOK AWARD WINNER • NAMED ONE OF TIME'S TEN BEST NONFICTION BOOKS OF THE DECADE • PULITZER PRIZE FINALIST • NATIONAL BOOK CRITICS CIRCLE AWARD FINALIST • ONE OF OPRAH'S "BOOKS THAT HELP ME THROUGH" • NOW AN HBO ORIGINAL SPECIAL EVENT Hailed by Toni Morrison as "required reading," a bold and personal literary exploration of America's racial history by "the most important essayist in a generation and a writer who changed the national political conversation about race" (Rolling Stone) NAMED ONE OF THE MOST INFLUENTIAL BOOKS OF THE DECADE BY CNN • NAMED ONE OF PASTE'S BEST MEMOIRS OF THE DECADE • NAMED ONE OF THE TEN BEST BOOKS OF THE YEAR BY The New York Times Book Review • O: The Oprah Magazine • The Washington Post • People • Entertainment Weekly • Vogue • Los Angeles Times • San Francisco Chronicle • Chicago Tribune • New York • Newsday • Library Journal • Publishers Weekly In a profound work that pivots from the biggest questions about American history and ideals to the most intimate concerns of a father for his son, Ta-Nehisi Coates offers a powerful new framework for understanding our nation's history and current crisis. Americans have built an empire on the idea of "race," a falsehood that damages us all but falls most heavily on the bodies of black women and men—bodies exploited through slavery and segregation, and, today, threatened, locked up, and murdered out of all proportion. What is it like to inhabit a black body and find a way to live within it? And how can we all honestly reckon with this fraught history and free ourselves from its burden? *Between the World and Me* is Ta-Nehisi Coates's attempt to answer these questions in a letter to his adolescent son. Coates shares with his son—and readers—the story of his awakening to the truth about his place in the world through a series of revelatory experiences, from Howard University to Civil War battlefields, from the South Side of Chicago to Paris, from his childhood home to the living rooms of mothers whose children's lives were taken as American plunder. Beautifully woven from personal narrative, reimagined history, and fresh, emotionally charged reportage, *Between the World and Me* clearly illuminates the past, bravely confronts our present, and offers a transcendent vision for a way forward.

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