

## Phased Array Training In Olympus Ndt

Materials Evaluation Industrial Ultrasonic Inspection: Levels 1 and 2 Friesen Press

Python for Everybody is designed to introduce students to programming and software development through the lens of exploring data. You can think of the Python programming language as your tool to solve data problems that are beyond the capability of a spreadsheet. Python is an easy to use and easy to learn programming language that is freely available on Macintosh, Windows, or Linux computers. So once you learn Python you can use it for the rest of your career without needing to purchase any software. This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information". There are free downloadable electronic copies of this book in various formats and supporting materials for the book at [www.pythonlearn.com](http://www.pythonlearn.com). The course materials are available to you under a Creative Commons License so you can adapt them to teach your own Python course.

Emmy Award winner, renowned lawyer and journalist, *The View* cohost, and National Bestselling author Sunny Hostin dazzles with this brilliant novel about a life-changing summer along the beaches of Martha's Vineyard. Welcome to Oak Bluffs, the most exclusive black beach community in the country. Known for its gingerbread Victorian-style houses and modern architectural marvels, this picturesque town hugging the sea is a mecca for the crème de la crème of black society—where Michelle and Barack Obama vacation and Meghan Markle has shopped for a house for her mom. Black people have lived in this pretty slip of the Vineyard since the 1600s and began buying property in the 1800s, making this posh town the embodiment of “old money.” Thirty years ago, Amelia Vaux Tanner and her husband built a house high on the bluffs, a cottage they named Chateau Laveau. For decades, “Ama” played host to American presidents, Wall Street titans, and cultural icons. But her favorite guests have always been her three “goddaughters:” Esperanza “Perry” Soto, a beautiful, talented Afro-Latina lawyer with Ama’s strong, yet guarded personality; Olivia Jones, a gifted Wall Street analyst with Ama’s brilliant, logical mind; and Billie Hayden, a gifted marine biologist and rule-breaker with Ama’s courageous free spirit. Growing up, these three goddaughters from different backgrounds came together each summer at Chateau Laveau. As adults, the cottage is a place this trio of successful yet very different women go to escape, to slow down from their hectic lives, share private time with Ama, and enjoy the gorgeous weather, cool water, and stunning views Oak Bluffs offers. This summer on the Bluffs, however, will be different. An era is ending: Ama, now nearing seventy-one, is moving to the south of France to reunite with her college sweetheart. She has invited Perry, Olivia, and Billy to spend one last golden summer together with her the way they did when they were kids. And when fall comes, she is going to give the house to one of them. Each of the women wants the house desperately. Each is grappling with a secret she fears will hurt her and her chances. By the end of summer, old ties will fray, new bonds will be created, and these three found sisters will discover they aren’t the only ones with something to hide. Ama has a few secrets of her own. What she has to give them is far more than property. Between Memorial Day and Labor Day, she will tell these surrogate daughters she fiercely loves and protects everything they never knew they needed to know.

Perform Accurate, Cost-Effective Product Testing Nondestructive testing has become the leading product testing standard, and *Handbook of Non-Destructive Evaluations* by Chuck Hellier is the unparalleled one-stop, A-to-Z guide to this subject. Covering the background, benefits, limitations, and applications of each, this decision-simplifying resource looks at both the major and emerging nondestructive evaluation methods, including: visual testing...penetrant testing...magnetic particle testing...radiographic testing...Ultrasonic testing... eddy current testing...thermal infrared testing...and acoustic emission testing. In clear, understandable terms, the Handbook shows you how to interpret results and formulate the right decisions based on them, making it a welcome resource for engineers, metallurgists, quality control specialists, and anyone else involved in product design, manufacture, or maintenance. The Handbook is also the ideal prep tool if you’re seeking certification in AWS/CSWIP, ASNT Level III, ACCP, and IRRSP programs. If you’re looking for a one-stop answer to all your nondestructive testing questions, your search ends here. This guidance covers the practical application of photogrammetry in recording cultural heritage, with particular reference to structure from motion (SfM) techniques. Our audience for this document includes survey contractors, archaeological contractors, voluntary organisations and specialists. Photogrammetric image acquisition and processing, until recently requiring a considerable investment in hardware and software, are now possible at a fraction of their former cost. This has led to a huge increase in the use of photogrammetry in cultural heritage recording. The skills required to apply the techniques successfully and accurately are discussed, and background information on how various parts of the process work is provided so that better results can be achieved through better understanding. Photogrammetry is characterised by its versatility, and is applicable over a wide range of scales, from landscapes to small objects. The particular requirements needed at these different scales are outlined, and both imaging techniques and useful ancillary equipment are described. The different types of outputs are discussed, including their suitability for further interrogation using a range of established analytical techniques and the presentation options available. A range of case studies illustrates the application of photogrammetry across a variety of projects that broadly reflect the areas discussed in the text. This document is one of a number of Historic England technical advice documents on how to survey historic places.

“Stylish, smart, and scary as hell.” —Chris Bohjalian, #1 New York Times bestselling author "A nightmarish white-knuckler." —O, The Oprah Magazine Oliver Park, a recovering addict from Indiana, finally has everything he ever wanted: sobriety and a loving, wealthy partner in Nathan, a prominent DC trauma surgeon. Despite their difference in age and disparate backgrounds, they've made a perfect life together. With everything to lose, Oliver shouldn't be visiting Haus, a gay bathhouse. But through the entrance he goes, and it's a line crossed. Inside, he follows a man into a private room, and it's the final line. Whatever happens next, Nathan can never know. But then, everything goes wrong, terribly wrong, and Oliver barely escapes with his life. He races home in full-blown terror as the hand-shaped bruise grows dark on his neck. The truth will destroy Nathan and everything they have together, so Oliver does the thing he used to do so well: he lies. What follows is a classic runaway-train narrative, full of the exquisite escalations, edge-of-your-seat thrills, and oh-my-god twists. P. J. Vernon's Bath Haus is a scintillating thriller with an emotional punch, perfect for readers curious for their next must-read novel.

This book describes efficient and safe repair operations for pipelines, and develops new methods for the detection and repair of volumetric surface defects in transmission pipelines. It also addresses the physics, mechanics, and applications of advanced materials used for composite repair of corroded pipelines. Presenting results obtained in the European Commission's INNOPIPES FRAMEWORK 7 programme, it develops long-range ultrasonic and phased array technologies for pipeline diagnostics, and explores their interactions with

discontinuities and directional properties of ultrasonic antenna array. The book subsequently shares the results of non-destructive testing for different types of materials applications and advanced composite repair systems, and characterizes the mechanical properties by means of fracture methods and non-destructive techniques. In turn, the book assesses the currently available technologies for reinforcement of pipelines, drawing on the experience gained by project partners, and evaluates the recovery of the carrying capacity of pipeline sections with local corrosion damage by means of analytical and numerical procedures. It develops an optimization method based on the planning of experiments and surface techniques for advanced composite repair systems, before validating the numerical models developed and experimentally gauging the effectiveness of composite repair with the help of full-scale hydraulic tests.

A raw and funny memoir about sex, dating, and relationships in the digital age, intertwined with a brilliant investigation into the challenges to love and intimacy wrought by dating apps, by firebrand New York Times–bestselling author Nancy Jo Sales. At forty-nine, famed Vanity Fair writer Nancy Jo Sales was nursing a broken heart and wondering, “How did I wind up alone?” On the advice of a young friend, she downloaded Tinder, then a brand-new dating app. What followed was a raucous ride through the world of online dating. Sales, an award-winning journalist and single mom, became a leading critic of the online dating industry, reporting and writing articles and making her directorial debut with the HBO documentary *Swiped: Hooking Up in the Digital Age*. Meanwhile, she was dating a series of younger men, eventually falling in love with a man less than half her age. *Nothing Personal* is Sales’s memoir of coming-of-middle-age in the midst of a new dating revolution. She is unsparingly honest about her own experience of addiction to dating apps and hilarious in her musings about dick pics, sexting, dating FOMO, and more. Does Big Dating really want us to find love, she asks, or just keep on using its apps? Fiercely feminist, *Nothing Personal* investigates how Big Dating has overwhelmed the landscape of dating, cynically profiting off its users’ deepest needs and desires. Looking back through the history of modern courtship and her own relationships, Sales examines how sexism has always been a factor for women in dating, and asks what the future of courtship will bring, if left to the designs of Silicon Valley’s tech giants—especially in a time of social distancing and a global pandemic, when the rules of romance are once again changing.

Percy Jackson is a good kid, but he can't seem to focus on his schoolwork or control his temper. And lately, being away at boarding school is only getting worse—Percy could have sworn his pre-algebra teacher turned into a monster and tried to kill him.

From one of our most innovative and celebrated authors, the definitive take on the wildest story of the year—the David-vs.-Goliath GameStop short squeeze, a tale of fortunes won and lost overnight that may end up changing Wall Street forever. Bestselling author Ben Mezrich offers a gripping, beat-by-beat account of how a loosely affiliate group of private investors and internet trolls on a subreddit called *WallStreetBets* took down one of the biggest hedge funds on Wall Street, firing the first shot in a revolution that threatens to upend the establishment. It’s the story of financial titans like Gabe Plotkin of hedge fund Melvin Capital, one of the most respected and staid funds on the Street, billionaires like Elon Musk, Steve Cohen, Mark Cuban, Robinhood co-CEOs Vlad Tenev and Baiju Bhatt, and Ken Griffin of Citadel Securities. Over the course of four incredible days, each in their own way must reckon with a formidable force they barely understand, let alone saw coming: everyday men and women on *WallStreetBets* like nurse Kim Campbell, college student Jeremy Poe, and the enigmatic Keith “RoaringKitty” Gill, whose unfiltered livestream videos captivated a new generation of stock market enthusiasts. The unlikely focus of the battle: GameStop, a flailing brick-and-mortar dinosaur catering to teenagers and outsiders that had somehow held on as the world rapidly moved online. At first, *WallStreetBets* was a joke—a meme-filled, freewheeling place to share shoot-the-moon investment tips, laugh about big losses, and post diamond hand emojis. Until some members noticed an opportunity in GameStop—and rode a rocket ship to tens of millions of dollars in earnings overnight. In thrilling, pulse-pounding prose, *THE ANTISOCIAL NETWORK* offers a fascinating, never-before-seen glimpse at the outsize personalities, dizzying swings, corporate drama, and underestimated American heroes and heroines who captivated the nation during one of the most volatile weeks in financial history. It’s the amazing story of what just happened—and where we go from here.

"This book is a message from autistic people to their parents, friends, teachers, coworkers and doctors showing what life is like on the spectrum. It's also my love letter to autistic people. For too long, we have been forced to navigate a world where all the road signs are written in another language." With a reporter's eye and an insider's perspective, Eric Garcia shows what it's like to be autistic across America. Garcia began writing about autism because he was frustrated by the media's coverage of it; the myths that the disorder is caused by vaccines, the narrow portrayals of autistic people as white men working in Silicon Valley. His own life as an autistic person didn't look anything like that. He is Latino, a graduate of the University of North Carolina, and works as a journalist covering politics in Washington D.C. Garcia realized he needed to put into writing what so many autistic people have been saying for years; autism is a part of their identity, they don't need to be fixed. In *We're Not Broken*, Garcia uses his own life as a springboard to discuss the social and policy gaps that exist in supporting those on the spectrum. From education to healthcare, he explores how autistic people wrestle with systems that were not built with them in mind. At the same time, he shares the experiences of all types of autistic people, from those with higher support needs, to autistic people of color, to those in the LGBTQ community. In doing so, Garcia gives his community a platform to articulate their own needs, rather than having others speak for them, which has been the standard for far too long.

From the incomparable Emmy, Grammy, and Tony Award winner, a powerful and revealing autobiography about race, sexuality, art, and healing. It's easy to be yourself when who and what you are is in vogue. But growing up Black and gay in America has never been easy. Before Billy Porter was slaying red carpets and giving an iconic Emmy-winning performance in the celebrated TV show *Pose*; before he was the groundbreaking Tony and Grammy Award-winning star of Broadway's *Kinky Boots*; and before he was an acclaimed recording artist, actor, playwright, director, and all-around legend, Porter was a young boy in Pittsburgh who was seen as different, who didn't fit in. At five years old, Porter was sent to therapy to “fix” his effeminacy. He was endlessly bullied at school, sexually abused by his stepfather, and criticized at his church. Porter came of age in a world where simply being himself was a constant struggle. *Billy Porter's Unprotected* is the life story of a singular artist and survivor in his own words. It is the story of a boy whose talent and courage opened doors for him, but only a crack. It is the story of a teenager discovering himself, learning his voice and his craft amidst deep trauma. And it is the story of a young man whose unbreakable determination led him through countless hard times to where he is now; a proud icon who refuses to back down or hide. Porter is a multitalented, multifaceted treasure at the top of his game, and *Unprotected* is a resonant, inspirational story of trauma and healing, shot through with his singular voice.

Critically acclaimed author and psychoanalyst Mikita Brottman offers literary true crime writing at its best, taking us into the life of a murderer after his conviction—when most stories end but the defendant's life goes on. On February 21, 1992, 22-year-old Brian Bechtold walked into a police station in Port St. Joe, Florida and confessed that he'd shot and killed his parents in their family home in Silver Spring, Maryland. He said he'd been possessed by the devil. He was eventually diagnosed with schizophrenia and ruled “not criminally responsible” for the murders on grounds of insanity. But after the trial, where do the “criminally insane” go? Brottman reveals Brian's inner life leading up to the murder, as well as his complicated afterlife in a maximum security psychiatric hospital, where he is neither imprisoned nor free. During his 27 years at the hospital, Brian has tried to escape and been shot by police, and has witnessed three patient-on-patient murders. He's experienced the drugging of patients beyond recognition, a sadistic system of rewards and punishments, and the short-lived reign of a crazed psychiatrist-turned-stalker. In the tradition of *One Flew Over The Cuckoo's Nest*,

Couple Found Slain is an insider's account of life in the underworld of forensic psych wards in America and the forgotten lives of those held there, often indefinitely.

Fibre metal laminates were developed at Delft University of Technology in The Netherlands, from the beginning of the 1980s. This is a new family of hybrid materials consisting of thin metal layers bonded together by fibres embedded in an adhesive. As a result of this build-up, fibre metal laminates possess a mixture of the characteristics of both metals and composite materials. Initial development led to the 'Arall' variant using aramid fibres, which was first applied on the C-17 military transport aircraft around 1990. Large-scale application became possible with a variant using glass fibres, dubbed 'Glare', which was selected for the Airbus A380 super jumbo in 2001. This is the first book to discuss these new materials and it deals mostly with Glare. It covers most of the relevant aspects of the materials, from static mechanical properties, fatigue and impact to design, production and maintenance of aircraft structures. This book contains the basic information on these new materials necessary for engineers and aircraft operators alike.

Ultrasonic testing (UT) has been an accepted practice of inspection in industrial environments for decades. This book, Industrial Ultrasonic Inspection, is designed to meet and exceed ISO 9712 training requirements for Level 1 and Level 2 certification. The material presented in this book will provide readers with all the basic knowledge of the theory behind elastic wave propagation and its uses with the use of easy to read text and clear pictorial descriptions. Discussed UT concepts include: General engineering, materials, and components theory Theory of sound waves and their propagation The general uses of ultrasonic waves Methods of ultrasonic wave generation Different ultrasonic inspection techniques Ultrasonic flaw detectors, scanning systems, and probes Calibration fundamentals General scanning techniques Flaw sizing techniques Basic analysis for ultrasonic, phased array ultrasonic, and time of flight diffraction inspection techniques Codes and standards Principles of technical documentation and reporting It is my intention that this book is used for general training purposes. It is the ideal classroom textbook. -Ryan Chaplin

Fundamentals of Light Microscopy and Electronic Imaging, Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system, covering both theoretical and practical considerations. It expands and updates discussions of multi-spectral imaging, intensified digital cameras, signal colocalization, and uses of objectives, and offers guidance in the selection of microscopes and electronic cameras, as well as appropriate auxiliary optical systems and fluorescent tags. The book is divided into three sections covering optical principles in diffraction and image formation, basic modes of light microscopy, and components of modern electronic imaging systems and image processing operations. Each chapter introduces relevant theory, followed by descriptions of instrument alignment and image interpretation. This revision includes new chapters on live cell imaging, measurement of protein dynamics, deconvolution microscopy, and interference microscopy. PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website:

[www.wiley.com/go/murphy/lightmicroscopy](http://www.wiley.com/go/murphy/lightmicroscopy)

In his first work of narrative nonfiction, Matthew Pearl, bestselling author of acclaimed novel *The Dante Club*, explores the little-known true story of the kidnapping of legendary pioneer Daniel Boone's daughter and the dramatic aftermath that rippled across the nation. On a quiet midsummer day in 1776, weeks after the signing of the Declaration of Independence, thirteen-year-old Jemima Boone and her friends Betsy and Fanny Callaway disappear near the Kentucky settlement of Boonesboro, the echoes of their faraway screams lingering on the air. A Cherokee-Shawnee raiding party has taken the girls as the latest salvo in the blood feud between American Indians and the colonial settlers who have decimated native lands and resources. Hanging Maw, the raiders' leader, recognizes one of the captives as Jemima Boone, daughter of Kentucky's most influential pioneers, and realizes she could be a valuable pawn in the battle to drive the colonists out of the contested Kentucky territory for good. With Daniel Boone and his posse in pursuit, Hanging Maw devises a plan that could ultimately bring greater peace both to the tribes and the colonists. But after the girls find clever ways to create a trail of clues, the raiding party is ambushed by Boone and the rescuers in a battle with reverberations that nobody could predict. As Matthew Pearl reveals, the exciting story of Jemima Boone's kidnapping vividly illuminates the early days of America's westward expansion, and the violent and tragic clashes across cultural lines that ensue. In this enthralling narrative in the tradition of Candice Millard and David Grann, Matthew Pearl unearths a forgotten and dramatic series of events from early in the Revolutionary War that opens a window into America's transition from colony to nation, with the heavy moral costs incurred amid shocking new alliances and betrayals.

The cranial nerves impact a broad range of normal motor and sensory functions ranging from smell and vision to balance. *The Cranial Nerves: An Introduction to the Unique Nerves of the Head, Neck and Special Senses* is an engaging and valuable primer on the biological function and clinical importance of these unique nerves. *The Cranial Nerves* opens with the history of our understanding of the cranial nerves and a brief introduction of key neuroanatomical concepts that will inform the clinical portions that follow. Chapters then detail each nerve and its unique function and impact on our senses, motor function, and health. Vividly illustrated and supported by real-life clinical cases, the book will appeal to anyone looking to gain a better understanding of cranial nerves. Merging foundational anatomical and biological information with intriguing clinical cases, *The Cranial Nerves: An Introduction to the Unique Nerves of the Head, Neck and Special Senses* introduces readers to the anatomy and diverse function of this unique family of nerves. A lively dialogue between a foreign philosopher and a powerful statesman reflects the essence of Platonic reasoning on political theory and practice. It also embodies the philosopher's practical ideas about a utopian republic.

In search of answers and action, the award-winning poet and essayist Lisa Wells brings us *Believers*, introducing trailblazers and outliers from across the globe who have found radically new ways to live and reconnect to the Earth in the face of climate change We find ourselves at the end of the world. How, then, shall we live? Like most of us, Lisa Wells has spent years overwhelmed by increasingly urgent news of climate change on an apocalyptic scale. She did not

need to be convinced of the stakes, but she could not find practical answers. She embarked on a pilgrimage, seeking wisdom and paths to action from outliers and visionaries, pragmatists and iconoclasts. *Believers* tracks through the lives of these people who are dedicated to repairing the earth and seemingly undaunted by the task ahead. Wells meets an itinerant gardener and misanthrope leading a group of nomadic activists in rewilding the American desert. She finds a group of environmentalist Christians practicing “watershed discipleship” in New Mexico and another group in Philadelphia turning the tools of violence into tools of farming—guns into ploughshares. She watches the world’s greatest tracker teach others how to read a trail, and visits botanists who are restoring land overrun by invasive species and destructive humans. She talks with survivors of catastrophic wildfires in California as they try to rebuild in ways that acknowledge the fires will come again. Through empathic, critical portraits, Wells shows that these trailblazers are not so far beyond the rest of us. They have had the same realization, have accepted that we are living through a global catastrophe, but are trying to answer the next question: How do you make a life at the end of the world? Through this miraculous commingling of acceptance and activism, this focus on seeing clearly and moving forward, Wells is able to take the devastating news facing us all, every day, and inject a possibility of real hope. *Believers* demands transformation. It will change how you think about your own actions, about how you can still make an impact, and about how we might yet reckon with our inheritance.

A GOOD MORNING AMERICA BOOK CLUB PICK “Chandler Baker, queen of the feminist thriller, has delivered once again! *The Husbands* is a poignant exploration of what it would take for women to have it all.” —Sally Hepworth, bestselling author of *The Good Sister* To what lengths will a woman go for a little more help from her husband? Nora Spangler is a successful attorney but when it comes to domestic life, she packs the lunches, schedules the doctor appointments, knows where the extra paper towel rolls are, and designs and orders the holiday cards. Her husband works hard, too... but why does it seem like she is always working so much harder? When the Spanglers go house hunting in Dynasty Ranch, an exclusive suburban neighborhood, Nora meets a group of high-powered women—a tech CEO, a neurosurgeon, an award-winning therapist, a bestselling author—with enviably supportive husbands. When she agrees to help with a resident’s wrongful death case, she is pulled into the lives of the women there. She finds the air is different in Dynasty Ranch. The women aren’t hanging on by a thread. But as the case unravels, Nora uncovers a plot that may explain the secret to having-it-all. One that’s worth killing for. Calling to mind a *Stepford Wives* gender-swap, New York Times bestselling author of *Whisper Network* Chandler Baker’s *The Husbands* imagines a world where the burden of the “second shift” is equally shared—and what it may take to get there. “Utterly engrossing and thoroughly timely, *The Husbands* is both a gripping, well-crafted mystery and an insightful critique of motherhood and marriage in the modern age--working mothers everywhere will feel seen in the best possible way.” —Kimberly McCreight, New York Times bestselling author of *A Good Marriage*

Drawing on real historical documents but infused with the intensity of imagination, sly humor, and intellectual fire for which award-winning author Rivka Galchen’s writing is known, *Everyone Knows Your Mother Is a Witch* is a tale for our time—the story of how a community becomes implicated in collective aggression and hysterical fear. The year is 1619, in the German duchy of Württemberg. Plague is spreading. The Thirty Years War has begun, and fear and suspicion are in the air throughout the Holy Roman Empire. In the small town of Leonberg, Katherina Kepler is accused of being a witch. An illiterate widow, Katherina is known by her neighbors for her herbal remedies and the success of her children, including her eldest, Johannes, who is the Imperial Mathematician and renowned author of the laws of planetary motion. It’s enough to make anyone jealous, and Katherina has done herself no favors by being out and about and in everyone’s business. So when the deranged and insipid Ursula Reinbold (or as Katherina calls her, the Werewolf) accuses Katherina of offering her a bitter, witchy drink that has made her ill, Katherina is in trouble. Her scientist son must turn his attention from the music of the spheres to the job of defending his mother. Facing the threat of financial ruin, torture, and even execution, Katherina tells her side of the story to her friend and next-door neighbor Simon, a reclusive widower imperiled by his own secrets. Provocative and entertaining, Galchen’s bold new novel touchingly illuminates a society, and a family, undone by superstition, the state, and the mortal convulsions of history.

*Ultrasonic Nondestructive Testing of Materials: Theoretical Foundations* explores the mathematical foundations and emerging applications of this testing process, which is based on elastic wave propagation in isotropic and anisotropic solids. In covering ultrasonic nondestructive testing methods, the book emphasizes the engineering point of view, yet it relies on the physics and mathematics aspects involved in elastic wave propagation theory. As a result, this resource becomes a missing link in the literature by combining coverage of the theoretical aspects of testing and providing intuitive assessments of numerous standard problems to illustrate fundamental assertions. Content includes a brief description of the theory of acoustic and electromagnetic fields to underline the similarities and differences as compared to elastodynamics. It also covers vector algebra and analysis, elastic plane and Rayleigh surface waves, and ultrasonic beams, as well as transducer radiation, inverse scattering, and ultrasonic nondestructive imaging. Includes numerical computations to explain wave propagation phenomena and compare results of analytical formulations Although ultrasonic nondestructive testing can often be roughly understood in terms of plane waves and beams, this book addresses the key issues of transducer radiation and defect scattering and imaging, respectively. The authors physically formulate point source synthesis, and, in mathematical terms, they use representation integrals with Green functions, always including intuitive interpretations with mathematical evaluations. Replacing cumbersome index notation with a coordinate-free version, this reference offers step-by-step documentation of relevant tensorial elastodynamic cases involving isotropic and anisotropic materials. It provides all necessary mathematical tools readers require to understand the mathematical and physical basis for ultrasonic nondestructive testing.

From New York Times bestselling author Eleanor Henderson comes a turbulent love story meets harrowing medical

mystery: the true story of the author's twenty-year marriage defined by her husband's chronic illness—and a testament to the endurance of love Eleanor met Aaron when she was just a teenager and he was working at a local record store—older, experienced, and irresistibly charming. Escaping the clichés of fleeting young love, their summer romance bloomed into a relationship that survived college and culminated in a marriage and two children. From the outside looking in, their life had all the trappings of what most would consider a success story. But, as in any marriage, things weren't always as they seemed. On top of the typical stresses of parenting, money, and work, there were the untended wounds of depression, addiction, and childhood trauma. And then one day, out of nowhere: a rash appeared on Aaron's arms. Soon, it had morphed into painful lesions covering his body. Eleanor was as baffled as the doctors. There was no obvious diagnosis, let alone a cure. And as years passed and the lesions gave way to Aaron's increasingly disturbed concerns about the source of his sickness, the husband she loved seemed to unravel before her eyes. A new fissure ruptured in their marriage, and new questions piled onto old ones: Where does physical illness end and mental illness begin? Where does one person end and another begin? And how do we exist alongside someone else's suffering? Emotional, intimate, and at times agonizing, *Everything I Have Is Yours* tells the story of a marriage tested by powerful forces outside both partners' control. It's not only a memoir of a wife's tireless quest to heal her husband, but also one that asks just what it means to accept someone as they are.

This book is open access under a CC BY 4.0 license. It relates to the III Annual Conference hosted by The Ministry of Education and Science of the Russian Federation in December 2016. This event has summarized, analyzed and discussed the interim results, academic outputs and scientific achievements of the Russian Federal Targeted Programme "Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014–2020." It contains 75 selected papers from 6 areas considered priority by the Federal Targeted Programme: computer science, ecology & environment sciences; energy and energy efficiency; lifesciences; nanoscience & nanotechnology and transport & communications. The chapters report the results of the 3-years research projects supported by the Programme and finalized in 2016.

In this volume of 15 articles, contributors from a wide range of disciplines present their analyses of Disney movies and Disney music, which are mainstays of popular culture. The power of the Disney brand has heightened the need for academics to question whether Disney's films and music function as a tool of the Western elite that shapes the views of those less empowered. Given its global reach, how the Walt Disney Company handles the role of race, gender, and sexuality in social structural inequality merits serious reflection according to a number of the articles in the volume. On the other hand, other authors argue that Disney productions can help individuals cope with difficult situations or embrace progressive thinking. The different approaches to the assessment of Disney films as cultural artifacts also vary according to the theoretical perspectives guiding the interpretation of both overt and latent symbolic meaning in the movies. The authors of the 15 articles encourage readers to engage with the material, showcasing a variety of views about the good, the bad, and the best way forward.

Join the conversation . . . With more than one hundred women restaurateurs, activists, food writers, professional chefs, and home cooks—all of whom are changing the world of food. Featuring essays, profiles, recipes, and more, *Why We Cook* is curated and illustrated by author and artist Lindsay Gardner, whose visual storytelling gifts bring nuance and insight into their words and their work, revealing the power of food to nourish, uplift, inspire curiosity, and effect change. "Prepare to be blown away by Lindsay Gardner's illustrations. Her gift as an artist is part of this fluid conversation about food with some of the most intriguing women, and you'll never want it to end. *Why We Cook* highlights our voices and varied perspectives in and out of the kitchen and empowers us to reclaim our place in it." —Carla Hall, chef, television personality, and author of *Carla Hall's Soul Food* "Why We Cook is a wonderful, heartwarming antidote to these trying times, and a powerful testament to unity through food." —Anita Lo, chef and author of *Solo and Cooking Without Borders* "This book is a beautiful object, but it's also much more than that: an essay collection, a trove of recipes, a guidebook for how we might use food to fight for and further justice. The women in its pages remind us that it's in the kitchen, in the field, and around the table that we do our most vital work as human beings—and that, now more than ever, we must." —Molly Wizenberg, author of *A Homemade Life* and *The Fixed Stars*

"[Seize the high ground is a] narrative history of the Army's aerospace experience from the 1950s to the present. The focus is on ballistic missile defense, from the early NIKE-HERCULES missile program through the SAFEGUARD acquisition site allowed by the 1972 ABM Treaty to the more advanced 'Star Wars' concepts studies toward the end of the century. [What is] covered is not only the technological response to the threat but the organizational and tactical development of the commands and units responsible for the defense mission"--CMH website.

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