

The Physics Of Sailing Explained

Fast Handling TechniqueThe Art and Science of SailsThe Physics of BaseballPhysics of WavesSolar SailingSailing For DummiesThe Physics of SkiingTwo in a Top HatApplied MathematicsCollege PhysicsThe Physics of Sailing ExplainedPrinciples of Yacht DesignSolar SailsYacht Design ExplainedPhysics of SailingMiss MacIntosh, My DarlingThe Knowledge Machine: How Irrationality Created Modern ScienceSailing Beyond Lake Superior: Travels of DursmirgThe Physics of Sailing ExplainedPISA Take the Test Sample Questions from OECD's PISA AssessmentsThe Great LevelerMathematics for PhysicsGlasses for PhotonicsSeaworthiness the Forgotten FactorThe Sailor's Word-bookThe Glénans Manual of SailingSail PerformanceAero-hydrodynamics and the Performance of Sailing YachtsSailing Made EasyMarine HydrodynamicsSail PowerThe Symmetry of SailingBefore the WindUniversity PhysicsElementary Mechanics Using MatlabDesirable and Undesirable Characteristics of Offshore YachtsIntroduction to Sports BiomechanicsThe Physics of InvisibilityBlue MindOne Hand for Yourself, One for the Ship

Fast Handling Technique

Who hasn't daydreamed about chucking it all and sailing away on a boat to warmer climes, "far from the madding crowd's ignoble strife." John and Jane did just that. This sailing adventure began as an idea and unfolded into a rich and fulfilling dream come true. A lifelong obsession of escape materialized in 1972 with the building and launching of Dursmirg. John and Jane went over the horizon. Departing Duluth-Superior on the western terminus of the St. Lawrence,

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they crossed the Great Lakes, the Erie Canal and Hudson River to New York City. It was an enchanting journey, and in more than one place they felt tempted to stay. But there was always the thought of Florida driving them on. Arriving in a fairyland, destiny planted them in St. Augustine. The book is recommended for all free spirited dreamers that have the drive and desire to live life to the fullest.

The Art and Science of Sails

A textbook that offers a unified treatment of the applications of hydrodynamics to marine problems. The applications of hydrodynamics to naval architecture and marine engineering expanded dramatically in the 1960s and 1970s. This classic textbook, originally published in 1977, filled the need for a single volume on the applications of hydrodynamics to marine problems. The book is solidly based on fundamentals, but it also guides the student to an understanding of engineering applications through its consideration of realistic configurations. The book takes a balanced approach between theory and empirics, providing the necessary theoretical background for an intelligent evaluation and application of empirical procedures. It also serves as an introduction to more specialized research methods. It unifies the seemingly diverse problems of marine hydrodynamics by examining them not as separate problems but as related applications of the general field of hydrodynamics. The book evolved from a first-year graduate course in MIT's Department of Ocean Engineering. A knowledge of advanced calculus is assumed. Students will find a previous introductory course in fluid dynamics helpful, but the book presents the necessary fundamentals in a self-contained manner. The 40th anniversary of this pioneering book offers a foreword by John

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Grue. Contents Model Testing • The Motion of a Viscous Fluid • The Motion of an Ideal Fluid • Lifting Surfaces • Waves and Wave Effects • Hydrodynamics of Slender Bodies

The Physics of Baseball

This is the world's largest and most complete boating reference, the standard to which all other works on sailing are compared. Originated by the renowned Glenans sailing school, the work covers everything a sailor needs to know -- the nature of sailing, types and parts of boats, mechanics of wind forces, sail maneuvers for every course and type of weather, meteorology, reading seascapes, navigation techniques, planning and carrying out day trips and long-term cruises. Thousands of diagrams, drawings and photos, including foldout charts and navigation maps, make every aspect of sailing easy to understand. If there's room for only one book aboard your sailing vessel, be sure to take along the one that's been called "the yachtsman's bible".

Physics of Waves

Introduction to Sports Biomechanics has been developed to introduce you to the core topics covered in the first two years of your degree. It will give you a sound grounding in both the theoretical and practical aspects of the subject. Part One covers the anatomical and mechanical foundations of biomechanics and Part Two concentrates on the measuring techniques which sports biomechanists use to study the movements of the sports performer. In addition, the book is highly illustrated with line drawings and photographs which help to reinforce explanations and examples.

Solar Sailing

The first guide to design aimed at every sailor, Yacht Design Explained uses state-of-the-art graphics, dynamic charts and photographs, and clear explanations to show what makes hulls, keels, ballast, rudders, foils, masts, and sails work. It reveals why certain designs perform well and others fail. The authors examine a range of boats, from a 14-foot dinghy to a 40-foot cruiser, from a catamaran to an offshore singlehander. They break through the often confusing physics of yacht design to provide an understanding that sailors can use to get the most out of their time afloat.

Sailing For Dummies

Solar sailing - using the sun as a propellant - offers the possibility of low-cost long-distance missions that are impossible with conventional spacecraft. This first comprehensive book on this propulsion method provides a detailed account of solar sailing, at a high technical level, but in a way accessible to the scientifically informed layperson. Solar sail orbital dynamics and solar radiation pressure form the foundations of the book, but the engineering design of solar sails is also considered, along with potential mission applications.

The Physics of Skiing

A groundbreaking technical analysis of yacht design based on cutting edge research in the field of aero-hydrodynamics.

Two in a Top Hat

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Surveys trends in yacht design, discusses safety, modern construction techniques, spars, rigging, sails, and auxiliary equipment, and describes five good boats.

Applied Mathematics

Ideal as a classroom text or for individual study, this unique one-volume overview of classical wave theory covers wave phenomena of acoustics, optics, electromagnetic radiations, and more.

College Physics

What is the best shape for a yacht? How does turbulence affect a yacht's movement through water? Why do some keels have wings? Is it true that some yachts can sail faster upwind than downwind? Authoritative yet accessible, *The Physics of Sailing* is the perfect book for anyone who wants to enhance their understanding and enjoyment of sailing. It will enable cruisers and racers alike to grasp how sails, keels and hulls work together to keep boats afloat, and will sharpen their skills with a thorough appreciation of why various boat design features are present and why certain tactics work in particular situations. Anderson outlines the science behind sailing in such a way that anyone can understand and benefit from his explanations without having to trudge through a physics textbook or become a naval architect. Concepts are conveyed simply, concisely, and with many examples and illustrations. With the help of this invaluable book, sailors will be better prepared to handle any situation that might arise on the water.

The Physics of Sailing Explained

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This book is an introduction to recent progress in the development and application of glass with special photonics properties. Glass has a number of structural and practical advantages over crystalline materials, including excellent homogeneity, variety of form and size, and the potential for doping with a variety of dopant materials. Glasses with photonic properties have great potential and are expected to play a significant role in the next generation of multimedia systems. Fundamentals of glass materials are explained in the first chapter, and the book then proceeds to a discussion of gradient index glass, laser glasses, nonlinear optical glasses and magneto-optical glasses. Beginning with the basic theory, the book discusses actual problems, performance and applications of glasses. The book will be of value to graduate students, researchers and professional engineers working in materials science, chemistry and physics with an interest in photonics and glass with special properties.

Principles of Yacht Design

Solar sail technology is very close to becoming an engineering reality and it will soon be used in the exploration of the solar system and beyond. This fascinating book provides an accessible introduction to solar sails and details how they work and what they will be used for in the exploration of space. It also examines current plans for solar sails and how advanced technology, such as nanotechnology, might enhance their performance. Coverage shows how solar sail propulsion will make space exploration more affordable and demonstrates how access to destinations within (and beyond) the solar system will become within reach.

Solar Sails

"A fascinating look inside the complexities and enjoyment of skiing. For every skier, from the beginner to the Olympic Gold Medalist, this book provides a treasure of information." -PAUL MAJOR, ATHLETIC DIRECTOR, U.S. SKI TEAM "I was delighted to learn from this interesting book more about the physics of a sport I have enjoyed for more than seventy years." -NORMAN RAMSEY, NOBEL LAUREATE IN PHYSICS, HARVARD UNIVERSITY

Yacht Design Explained

Sail Performance, based on C A Marchaj's classic Sailing Theory & Practice, has established itself as the standard work on the subject and is now acclaimed as a milestone in sailing literature. From wind tunnel tests which he has conducted, Tony Marchaj describes how the factors of wind speed, sail area, sail shape, sail setting, the hull, angle of heel, wind gradient and steadiness of the wind all affect sail power, and why certain rigs are superior in power and efficiency to others. Sail Performance is a major work which is acclaimed for its analysis of the factors that contribute to an efficient sailing rig. 'Should be on the bookshelf of every serious amateur and professional sailor' Nautical Magazine

Physics of Sailing

Sailing Made Easy is the first step in a voyage that will last you the rest of your life. It is a gift from a group of dedicated sailing professionals who have committed their lives to sharing their art, their skill, and their passion for this wonderful activity. This book, which Sailing Magazine called

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"best in class" upon its release in 2010, is the most comprehensive education and boating safety learn-to-sail guide to date. It is also the official textbook for the ASA Basic Keelboat Standard (ASA 101). Incorporated in the textbook are useful illustrations and exceptional photographs of complex sailing concepts. The text's most distinguishing feature is its user friendly "spreads" in which instructional topics are self-contained on opposing pages throughout the book. There are also chapter end quizzes and a glossary to help those new to sailing to navigate their way through the extensive nautical terminology.

Miss MacIntosh, My Darling

Bryon D Anderson is a writer and scientist with a special interest in sail.

The Knowledge Machine: How Irrationality Created Modern Science

A landmark book by marine biologist Wallace J. Nichols on the remarkable effects of water on our health and well-being. Why are we drawn to the ocean each summer? Why does being near water set our minds and bodies at ease? In BLUE MIND, Wallace J. Nichols revolutionizes how we think about these questions, revealing the remarkable truth about the benefits of being in, on, under, or simply near water. Combining cutting-edge neuroscience with compelling personal stories from top athletes, leading scientists, military veterans, and gifted artists, he shows how proximity to water can improve performance, increase calm, diminish anxiety, and increase professional success. BLUE MIND not only illustrates the crucial importance of our connection to water-it

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provides a paradigm shifting "blueprint" for a better life on this Blue Marble we call home.

Sailing Beyond Lake Superior: Travels of Dursmirg

Guide for both cruisers and racers that takes a look at the latest materials and rigging methods and simplifies the purchase and upkeep of a proper sail inventory.

The Physics of Sailing Explained

In February 1974, Jan and Ian Mitchell, cruising novices, set off to circumnavigate the world in their Top Hat 25 foot yacht, Caprice. Many adventures later, they returned to Sydney in November 1977, with two-year-old Jamie (born in Durban, South Africa) and Jan pregnant with their second son. Four and a half months later, David was born. Ian looked after the children while Jan wrote articles for yachting magazines. She also wrote the cover story for an August edition of Women's Day. This book contains a compilation of those fourteen articles plus one from Ian about their shakedown voyage, published in Australian Sailing. Jan has added many more photographs of their trip and a history of the Top Hats. The Mitchells write about seasickness, gales, learning to navigate, coping with strong currents, repairing a rigging failure at sea, friendships with others in the cruising community, the joys of tropical islands and more. These articles were widely read in 1978 and inspired many would-be sailors to buy a boat. Some set out to sail the world. We hope their story will inspire you too.

PISA Take the Test Sample Questions from

OECD's PISA Assessments

An engagingly-written account of mathematical tools and ideas, this book provides a graduate-level introduction to the mathematics used in research in physics. The first half of the book focuses on the traditional mathematical methods of physics – differential and integral equations, Fourier series and the calculus of variations. The second half contains an introduction to more advanced subjects, including differential geometry, topology and complex variables. The authors' exposition avoids excess rigor whilst explaining subtle but important points often glossed over in more elementary texts. The topics are illustrated at every stage by carefully chosen examples, exercises and problems drawn from realistic physics settings. These make it useful both as a textbook in advanced courses and for self-study. Password-protected solutions to the exercises are available to instructors at www.cambridge.org/9780521854030.

The Great Leveler

'The most important work on sailing matters' Little Ship Club
A survey of the seaworthiness of modern yacht designs, this revised edition is based on the highest degree of practical and academic research, and shows how modern yachts often sacrifice safety for speed.

Mathematics for Physics

Applied Mathematics: Made Simple provides an elementary study of the three main branches of classical applied mathematics: statics, hydrostatics, and dynamics. The book begins with discussion of the concepts of mechanics, parallel

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forces and rigid bodies, kinematics, motion with uniform acceleration in a straight line, and Newton's law of motion. Separate chapters cover vector algebra and coplanar motion, relative motion, projectiles, friction, and rigid bodies in equilibrium under the action of coplanar forces. The final chapters deal with machines and hydrostatics. The standard and content of the book covers C.S.E. and 'O' level G.C.E. examinations in Applied Mathematics and Mechanics as well as the relevant parts of the syllabuses for Physics and General Science courses related to Engineering, Building, and Agriculture. The book is also written for the home study reader who is interested in widening his mathematical appreciation or simply reviving forgotten ideas. The author hopes that the style of presentation will be found sufficiently attractive to recapture those who may at one time have lost interest.

Glasses for Photonics

Blending scientific fact and sports trivia, Robert Adair examines what a baseball or player in motion does-and why. How fast can a batted ball go? What effect do stitch patterns have on wind resistance? How far does a curve ball break? Who reaches first base faster after a bunt, a right- or left-handed batter? The answers are often surprising—and always illuminating. This newly revised third edition considers recent developments in the science of sport such as the neurophysiology of batting, bat vibration, and the character of the "sweet spot." Faster pitchers, longer hitters, and enclosed stadiums also get a good, hard scientific look to determine their effects on the game. Filled with anecdotes about famous players and incidents, *The Physics of Baseball* provides fans with fascinating insights into America's favorite pastime.

Seaworthiness the Forgotten Factor

The Sailor's Word-book

“The Knowledge Machine is the most stunningly illuminating book of the last several decades regarding the all-important scientific enterprise.” —Rebecca Newberger Goldstein, author of *Plato at the Googleplex* A paradigm-shifting work, *The Knowledge Machine* revolutionizes our understanding of the origins and structure of science. • Why is science so powerful? • Why did it take so long—two thousand years after the invention of philosophy and mathematics—for the human race to start using science to learn the secrets of the universe? In a groundbreaking work that blends science, philosophy, and history, leading philosopher of science Michael Strevens answers these challenging questions, showing how science came about only once thinkers stumbled upon the astonishing idea that scientific breakthroughs could be accomplished by breaking the rules of logical argument. Like such classic works as Karl Popper’s *The Logic of Scientific Discovery* and Thomas Kuhn’s *The Structure of Scientific Revolutions*, *The Knowledge Machine* grapples with the meaning and origins of science, using a plethora of vivid historical examples to demonstrate that scientists willfully ignore religion, theoretical beauty, and even philosophy to embrace a constricted code of argument whose very narrowness channels unprecedented energy into empirical observation and experimentation. Strevens calls this scientific code the iron rule of explanation, and reveals the way in which the rule, precisely because it is unreasonably close-minded, overcomes individual prejudices to lead humanity inexorably toward the secrets of nature. “With a

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mixture of philosophical and historical argument, and written in an engrossing style” (Alan Ryan), *The Knowledge Machine* provides captivating portraits of some of the greatest luminaries in science’s history, including Isaac Newton, the chief architect of modern science and its foundational theories of motion and gravitation; William Whewell, perhaps the greatest philosopher-scientist of the early nineteenth century; and Murray Gell-Mann, discoverer of the quark. Today, Strevens argues, in the face of threats from a changing climate and global pandemics, the idiosyncratic but highly effective scientific knowledge machine must be protected from politicians, commercial interests, and even scientists themselves who seek to open it up, to make it less narrow and more rational—and thus to undermine its devotedly empirical search for truth. Rich with illuminating and often delightfully quirky illustrations, *The Knowledge Machine*, written in a winningly accessible style that belies the import of its revisionist and groundbreaking concepts, radically reframes much of what we thought we knew about the origins of the modern world.

The Glénans Manual of Sailing

Blending a highly personal perspective on the challenge of single-handed sailing with detailed advice, this guide gives counsel on craft selection and preparation, self-steering devices, emergency gear and tools, and other practical matters

Sail Performance

This text blends traditional introductory physics topics with an emphasis on human applications and an expanded coverage

of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

Aero-hydrodynamics and the Performance of Sailing Yachts

The ability to see is fundamental to our very existence. How true our perceptions really are depends upon many factors, and not least is our understanding of what light is and how it interacts with matter. It was said that the camera, the icon of light recording instruments, never lies, and in the day of the glass plate and celluloid roll-film this might well have been true. But in this modern era, with electronic cameras and computer software, it is often safe to assume that the camera always lies. The advertising images that bombard our every waking moment are manipulated in shape, profile, color, and form. In this new era, light can be manipulated with metamaterials to make one object look like another or even cause that objects to vanish, literally before our eyes; not only can the image we see be manipulated, but so can the light itself.

Sailing Made Easy

Following *The Highest Tide*, *Border Songs*, and *Truth Like the Sun*, Jim Lynch now gives us a grand and idiosyncratic family saga that will stand alongside Ken Kesey's *Sometimes a Great Notion*. Joshua Johannssen has spent all of his life surrounded by sailboats. His grandfather designed them, his

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father built and raced them, his Einstein-obsessed mother knows why and how they work (or not). For Josh and his two siblings, their backyard was the Puget Sound and sailing their DNA. But both his sister and brother fled many years ago: Ruby to Africa and elsewhere to do good works on land, and Bernard to god-knows-where at sea, a fugitive and pirate. Suddenly thirty-one, Josh—who repairs boats of all kinds in a Steinbeckian marina south of Seattle—is pained and confused by whatever the hell went wrong with his volatile family. His parents are barely speaking, his mystified grandfather is drinking harder, and he himself—despite an endless and comic flurry of online dates—hasn't even come close to finding a girlfriend. But when the Johannssens unexpectedly reunite for the most important race in these waters—all of them together on a classic vessel they made decades ago—they will be carried to destinies both individual and collective, and to a heart-shattering revelation. Past and present merge seamlessly and collide surprisingly as Jim Lynch reveals a family unlike any other, with the grace and humor and magic of a master storyteller. From the Hardcover edition.

Marine Hydrodynamics

Interested in learning to sail but feel like you're navigating in murky waters? *Sailing for Dummies, Second Edition* introduces the basics of sailing, looks at the different types of sailboats and their basic parts, and teaches you everything you need to know before you leave the dock. In *Sailing for Dummies, Second Edition*, two U.S. sailing champions show you how to: Find and choose a sailing school Use life jackets correctly Tie ten nautical knots Handle sailing emergencies (such as capsizing and rescuing a man overboard) Launch your boat from a trailer, ramp, or beach Get your boat from

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point A to point B (and back again) Predict and respond to water and wind conditions Read charts, plot your course, use a compass, and find your position at sea Sailing for Dummies shows you that getting out on the water is easier than you think. The authors keep the sailor-speak to a minimum where possible, but give you a grasp of the terminology you need to safely and effectively communicate with your crew. A textbook, user's manual, and reference all in one, this book takes the intimidation out of sailing and gives you the skills and confidence you need to get your feet wet and become the sailing pro you've always wanted to be. Anchors away!

Sail Power

The Symmetry of Sailing

From the author of the bestselling High Performance Sailing and Higher Performance Sailing comes the first scientific analysis of what makes fast sailors fast. Eschewing the idea that luck or innate talent are the keys to success, Frank Bethwaite shows how knowledge truly is power. Making use of video cameras aligned to GPS read-outs to track the fastest racers, he meticulously analyses what winners do and how they do it, to show the rest of us how to get the best out of a racing craft. Frank Bethwaite's previous books were groundbreaking bibles that applied scientific theories to how sails and hulls interact with wind and water to influence boat speed. But whilst they applied scientific theories to boat construction, they didn't apply science to practical boat handling. This book fills that gap, and then goes further. Budding racers of all levels will welcomethis unique book as a godsend. It will inform, instruct and enable them toemploy the

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techniques (and timing) of the most successful racers, and make racing more competitive for participants, and more exciting for those of us watching.

Before the Wind

Breaking down the complicated concepts of speed, acceleration, torque, fluid mechanics, and surface physics, *Physics of Sailing* provides a lively, easily accessible introduction to the basic science underlying the sport of sailing. It illustrates the many ways physics can be used to understand the principles of sailboat propulsion and how a scienti

University Physics

Principles of Yacht Design has established itself as the standard book on the subject for practising designers, naval architecture students, discerning boat owners as well as the boatbuilding industry as a whole. The fourth edition is completely revised and expanded and follows the design from scratch of a completely new yacht including all new computer-generated explanatory illustrations. As such, it examines every aspect of the process of yacht and powerboat design. The authors have used a newly designed 41 foot performance cruiser to demonstrate the practical application of yacht design theory. Beginning with the yacht's specifications, the authors examine the vital topics of aero and hydrodynamics and conclude with practical matters such as the layout of the cockpit, deck and cabin, and provide a complete weight calculation for the boat. 'This book is deeply fascinating . . . a must.' *Classic Boat* 'The standard book on the subject for practising designers, naval architecture

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students, discerning boat owners and the boatbuilding industry as a whole.' *Yachting Life* (May 2007) 'A definitive work on yacht design.' *Cruising*

Elementary Mechanics Using Matlab

This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

Desirable and Undesirable Characteristics of Offshore Yachts

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 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 been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and

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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 I Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

Introduction to Sports Biomechanics

This novel is one of the most ambitious and remarkable literary achievements of our time. It is a picaresque, psychological novel--a novel of the road, a journey or voyage of the human spirit in its search for reality in a world of illusion and nightmare. It is an epic of what might be called the Arabian Nights of American life. Marguerite Young's method is poetic, imagistic, incantatory; in prose of extraordinary richness she tests the nature of her characters--and the nature of reality. Miss MacIntosh, My Darling is written with oceanic music moving at many levels of consciousness and perception; but the toughly fibred realistic fabric is always there, in the happenings of the narrative, the humor, the

precise details, the definitions of the characters.

The Physics of Invisibility

Are mass violence and catastrophes the only forces that can seriously decrease economic inequality? To judge by thousands of years of history, the answer is yes. Tracing the global history of inequality from the Stone Age to today, Walter Scheidel shows that it never dies peacefully. The Great Leveler is the first book to chart the crucial role of violent shocks in reducing inequality over the full sweep of human history around the world. The “Four Horsemen” of leveling—mass-mobilization warfare, transformative revolutions, state collapse, and catastrophic plagues—have repeatedly destroyed the fortunes of the rich. Today, the violence that reduced inequality in the past seems to have diminished, and that is a good thing. But it casts serious doubt on the prospects for a more equal future. An essential contribution to the debate about inequality, The Great Leveler provides important new insights about why inequality is so persistent—and why it is unlikely to decline anytime soon.

Blue Mind

Why must a boat make leeway in order to sail to windward? How can a helmsman prevent downwind rolling? Why is a sail able to produce a force at right angles to the wind direction? These and many other important questions are addressed by the authors in this detailed study of the motive forces of a yacht.

One Hand for Yourself, One for the Ship

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This book – specifically developed as a novel textbook on elementary classical mechanics – shows how analytical and numerical methods can be seamlessly integrated to solve physics problems. This approach allows students to solve more advanced and applied problems at an earlier stage and equips them to deal with real-world examples well beyond the typical special cases treated in standard textbooks. Another advantage of this approach is that students are brought closer to the way physics is actually discovered and applied, as they are introduced right from the start to a more exploratory way of understanding phenomena and of developing their physical concepts. While not a requirement, it is advantageous for the reader to have some prior knowledge of scientific programming with a scripting-type language. This edition of the book uses Matlab, and a chapter devoted to the basics of scientific programming with Matlab is included. A parallel edition using Python instead of Matlab is also available. Last but not least, each chapter is accompanied by an extensive set of course-tested exercises and solutions.

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