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advanced avalanche photodiodes for water vapor lidar
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Novel Lidar Ceilometer **Laser Remote Sensing**
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"Information on recent progress in laser remote sensor (LIDAR) technology can be found scattered throughout numerous journal articles and conference proceedings, but until now there has been no work that summarizes recent advancements and achievements in the field in a detailed format. Laser Remote Sensing provides an up-to-date, comprehensive review on LIDAR, focusing mainly on applications to current topics in atmospheric science. The scope of the book includes laser remote sensing of the atmosphere, including measurement of aerosols, water vapor, clouds, winds, trace constituents, and temperature. It also covers other interesting applications such as

vegetation monitoring and altimetry. LIDAR systems described in this volume include ground-based (fixed or mobile), airborne, and spaceborne (satellite-based) systems. The book emphasizes instrumentation and measurement techniques to enable the reader to understand what kind of a LIDAR system is necessary for a certain application. Readers will learn in which ways light can be "confined" within a subwavelength region smaller than half a wavelength. Strictly within the focal spot, all degrees of freedom of light interact and manifest themselves in a dramatic way. The size and shape of the focal spot and the magnitude of side-lobes depend on the polarization state alongside phase and amplitude distributions of a light beam. Readers will learn techniques in which inhomogeneously (i.e., azimuthally and radially) polarized optical beams can be focused. In sharp focus, exotic phenomena can occur, including the negative propagation of light and a toroidal optical flow. Throughout the book, the numerical simulation is performed using the rigorous solution of Maxwell's equations based on a Finite-Difference Time-Domain (FDTD) approach, which makes the results of modeling highly reliable. The photonic components, including optical metasurfaces, discussed in the book have been implemented using state-of-the-art techniques of electron beam writing and reactive ion-beam etching of microrelief. Two chapters are concerned with photonics hot spots, which deal with the control of light by means of

optical metasurfaces and the generation of an energy backflow in the region of sharp focus of a laser beam. Another hot topic is diffractive polarization converters implemented as subwavelength diffraction gratings to convert polarization of light. By way of illustration, such converters are shown to perform linear-to-radial or linear-to-azimuthal polarization conversion. The book describes advanced photonic components fabricated by the authors to perform sharp focusing of light, including binary zone plates, binary axicons, a planar photonic crystal lens, diffraction polarization converters, and metalenses. This book is a must-have for individuals and institutions studying cutting edge optics. Constantly busy but always behind? Stressed and overwhelmed? Wish you could supercharge your life and focus on demand? Want to be able to slice your way through to-do lists with laser-like focus? To concentrate when it matters and achieve jaw-dropping results? Then Extreme Focus is the book for you. Extreme Focus teaches you how to develop razor-sharp focus, rock-solid concentration, and titanic productivity. By the end of this book, you'll be effortlessly ticking your way through to-do lists with an uncontrollable grin. Multiply your day. You will discover... 18 scientifically formulated techniques for razor-sharp focus and sustained concentration. 27 proven productivity hacks. A curated collection of actionable real-life examples including Mozart, Picasso, Napoleon, hedge fund managers, and Navy SEALs. How to zap

brain fog and reclaim mental clarity. And much more!
How will you learn to develop laser-like focus?
Discover... How Pablo Picasso entered a trance-like state of extreme focus to paint his best works. How you can use Napoleon's most successful military strategy to conquer your to-do list. The diet used by memory champions, Navy SEALs, and hedge fund managers to enhance cognitive performance and give them laser-like focus. How to (literally) grow your brain, skyrocket energy levels, double your learning speed (yes, seriously), and increase intellect. And much more! Perform at the apex of your abilities, develop laser-like focus, and win admiring glances. To develop unceasing productivity and supercharge your life, scroll up to the top and click BUY NOW! Optimize your talent by removing the obstacles in their path Capacity is a proven system for bringing the best out of your team-and yourself. Matt and Chris Johnson set the mark on how to succeed in the future with their energizing message, humorous stories and their generational differences. As the world speeds-up faster and faster, organizations and their people try to keep up. This pressure to do more with less has reached epidemic levels of concern and organizations are panicking on how to recruit, retain and attract the best talent for the future. Burnout, low engagement, and overwhelming stress are jeopardizing organizations' ability to scale and win. As outdated performance models of the past crumble under pressure, Matt and Chris show you how to build and

protect your most valuable asset—YOUR PEOPLE. What if you could beat the clock and expand your capacity by 6 hours per week? Or 11? Think about the organizational impact if your workforce were given fresh capacity to perform, lead, and grow. This book offers a clear, workable solution for organizations functioning in the real world: by paring it down to three performance pillars they must have to succeed—focus, energy, and drive. Every organization sets initiatives, but many remain unfinished because their capacity to do so fails before it starts. This framework is different: these changes bring the type of benefits that cause transformation. Giving your people what they need makes buy-in irrelevant, and allows them to perform at their highest potential. Not only can it work, but it is the only thing that will work over the long term. By making your organization a great place to work, you retain your best talent and attract more like it. With dedicated resources, focus, sustainable effort, and comprehensive strategy, your top performers will be equipped to drive your organization to the top. Among Capacity's Key Points: Learn what top performers need to produce their very best work Discover the biggest factor influencing your team's FOCUS, ENERGY and DRIVE Prevent burnout and stimulate innovation by allowing your people to have a bigger container Adopt a strategy of expanding capacity to exceed your high-performance goals Deeply personal, but organizationally focused. Capacity is an engaging and even life-changing book

Capacity is the next big paradigm shift for the future of training and development—as we shift to the world of the knowledge worker, it is not information or talent that wins, it's is whoever has the largest capacity that will win. Capacity is your secret weapon to winning the performance war. Please note: This is a companion version & not the original book. Sample Book Insights: #1 By removing distractions and getting to the point, the LFC process is more efficient and effective than traditional therapy. It also allows clients to focus on what's important and get to satisfaction quickly. #2 -> Laser-Focused Coaching is similar to traditional therapy in that it removes distractions and gets to the point. However, it differs in that it focuses on the client rather than on results. #3 The most common approach to coaching is to accept at face value what the client shares. Emphasis is placed on agreeing on the outcome the client requests from the beginning, and then working toward that. The coach assists the client in designing an action, and then manages accountability. #4 Focus on the client, not on the outcome. Starting from fundamentals and moving through a thorough discussion of equipment, methods, and techniques, this text provides a unique reference source for this important new analysis method. The authors use a combination of tutorial discussions ranging from basic principles up to more advanced descriptions along with extensive figures and photographs to clearly explain topics addressed in the text. It is

intended that the data tables will be located within the Education section of SpectroscopyNOW.com Provides a thorough but understandable discussion of the basic principles, instrumentation, methodology, and sampling procedures of the method based on atomic emission spectroscopy. Presents a discussion of the many advantages of the method along with limitations, to provide the reader a balanced overview of capabilities of the method Presents an overview of some real-world applications of the method Provides an up-to-date list of references to LIBS literature and a unique list of element detection limits using a uniform analysis method

Principles of Laser Materials Processing Authoritative resource providing state-of-the-art coverage in the field of laser materials processing, supported with supplementary learning materials Principles of Laser Materials Processing goes over the most recent advancements and applications in laser materials processing, with the second edition providing a welcome update to the successful first edition through updated content on the important fields within laser materials processing. The text includes solved example problems and problem sets suitable for the readers' further understanding of the technology explained. Split into three parts, the text first introduces basic concepts of lasers, including the characteristics of lasers and the design of their components, to aid readers in their initial understanding of the technology. The text then reviews the engineering concepts that are needed to

analyze the different processes. Finally, it delves into the background of laser materials and provides a state-of-the-art compilation of material in the major application areas, such as laser cutting and drilling, welding, surface modification, and forming, among many others. It also presents information on laser safety to prepare the reader for working in the industry sector and provide practicing engineers the updates needed to work safely and effectively. In Principles of Laser Materials Processing, readers can expect to find specific information on: Laser generation principles, including basic atomic structure, atomic transitions, population distribution, absorption, and spontaneous emission Optical resonators, including standing waves in a rectangular cavity, planar resonators, beam modes, line selection, confocal resonators, and concentric resonators Laser pumping, including optical pumping, arc/flash lamp pumping, energy distribution in the active medium, and electrical pumping Broadening mechanisms, including line-shape functions, homogeneous broadening such as natural and collision, and inhomogeneous broadening Principles of Laser Materials Processing is highly suitable for senior undergraduate and graduate students studying laser processing, and non-traditional manufacturing processes; it is also aimed at researchers to provide additional information to be used in research projects that are to be undertaken within the technology field. Information on recent progress in laser remote sensor (LIDAR)

technology can be found scattered throughout numerous journal articles and conference proceedings, but until now there has been no work that summarizes recent advancements and achievements in the field in a detailed format. *Laser Remote Sensing* provides an up-to-date, comprehensive review on LIDAR, focusing mainly on applications to current topics in atmospheric science. The scope of the book includes laser remote sensing of the atmosphere, including measurement of aerosols, water vapor, clouds, winds, trace constituents, and temperature. It also covers other interesting applications such as vegetation monitoring and altimetry. LIDAR systems described in this volume include ground-based (fixed or mobile), airborne, and spaceborne (satellite-based) systems. The book emphasizes instrumentation and measurement techniques to enable the reader to understand what kind of a LIDAR system is necessary for a certain application. The individual chapters are self-contained and written by authors who are outstanding experts in each field. The book is intended for scientists, researchers, and students who have interest in the atmospheric environment and wish to learn about the measurement capabilities of state-of-the-art LIDAR systems

Learn How to Develop Laser-Like Focus, Concentrate on Demand, and Achieve the Extraordinary Results You Want... If you're sick of "being busy being busy" and wish you could stop feeling stressed, overwhelmed, and defeated and instead start getting the

real results you want, then this book is for you... Learn the tips, tricks, and techniques used by the world's most elite performers Did you know that Navy SEALs often take special supplements to get themselves into a state of intense focus before dangerous missions? Did you know Picasso would work after sunset, using spotlights to light up his artwork so that everything else would be dark and he could fully immerse himself in his paintings in a trance-like state of lucid focus? The world's most elite performers know that intense focus is the key to performing at the very apex of their abilities. And after reading this book, you too will be able to focus with intensity and perform at your peak. How will you learn to develop laser-like focus? Inside the book: What Elon Musk can teach you about focus How to use the semi-barbaric "butt-in-chair method" for laser-like focus How to get more done by working less (seriously) How to develop unbreakable concentration... by flying on an imaginary airplane How to create "islands of focus" The secret to eliminating distractions And much more... 15+ ways to get the most out of your every waking minute Inside the book: Why your diet is giving you brain fog and making you tired and unfocused (and exactly what foods you need to eat for razor-sharp focus and sustained concentration) Why you should set "macro goals" and "micro quotas" The 3 steps to laser-like focus 6 foolproof techniques for rock-solid concentration The optimal work-to-break ratio for maximum productivity and focus

(scientifically proven) And much, much more... To 10X your focus and consistently conquer your to-do list, scroll up to the top of this page and click BUY NOW. In Focus Like a Laser Beam, acclaimed management consultant and business blogger Lisa Haneberg offers business leaders a new way to direct their focus that, like a laser beam, is direct, fast, and on track. The book offers leaders ways to improve energy and engagement in the workplace and redirect how people communicate at work. Focus Like a Laser Beam is filled with useful suggestions for dealing with distractions and diversions and outlines the ten practices that will help leaders focus on what's most important. Know and feel the power of laser focus Get connected with your employees Have fun and be fun Relax to energize Turn meetings into focus sessions Invite a challenge Huddle Stop multitasking and put your focus where it belongs Do one great thing Let go of outdated goals, projects, and tasks Focus and never lose sight of what it is you want in life. In this insightful book, Roy Saunderson will show you through his own experiences, effective strategies to reach your and achieve the goals you have always longed for. Discover the powerful results of focusing in your own life. Rekindle your belief in yourself and create a powerful attitude to make a difference in our world. In How To Focus On Success, Roy shares with you how he became focused and how he discovered the core principles for getting back on track and focusing on success. This book will be a valuable tool

for people in business and those wanting to reach their own definition of success. Brian Tracy, recognized as one of North America's leading authorities on success and personal achievement says: This is an extremely helpful book that shows you how to focus and concentrate on achieving the most important goals in your life. It is an invaluable success tool for every ambitious person! *

Focuses only on elastic lidars and directly related topics. *

Evaluates all of the major inversion and analysis methods. *

* Covers an emerging field that is generating a lot of interest. This monograph undertakes to present systematically the methods for solving inverse problems of lidar sensing of the atmosphere, with emphasis on lidar techniques that are based on the use of light scattering by aerosols. The theory of multi-frequency lidar sensing, as a new method for studying the microphysical and optical characteristics of aerosol formations, is also presented in detail. The possibilities of this theory are illustrated by the experimental results on microstructure analysis of tropospheric and low stratospheric aerosols obtained with ground-based two- and three-frequency lidars. The lidar facilities used in these experimental studies were constructed at the Institute of Atmospheric Optics S8 USSR Academy of Sciences. Some aspects of remote control of dispersed air pollution using lidar systems are also considered. A rigorous theory for inverting the data of polarization lidar measurements is discussed, along with its application to remote measurement of the complex

index of refraction of aerosol substances and the microstructure parameters of background aerosols using double-ended lidar schemes. Solutions to such important problems as the separation of contributions due to Rayleigh molecular and Mie-aerosol light scattering into the total backscatter are obtained by using this theory. Lidar polarization measurements are shown to be useful in this case. The efficiency of the methods suggested here for interpreting the lidar polarization measurements is illustrated by experimental results on the investigation of the microphysical parameters of natural aerosols and artificial smokes using polarization nephelometers. This research was done to choose a suitable APD detector for the development of an advanced atmospheric water vapor differential absorption lidar detection system operating either at 720, 820, or 940 nm. The results point out the benefits of using the super low ionization ratio (SLIK) structure APD for its lower noise-equivalent power, which was found to be on the order of 2 to 4 fW/Hz^{1/2}, with an appropriate optical system and electronics. The water vapor detection systems signal-to-noise ratio will increase by a factor of 10. Rather different problems can be lumped together under the general term 'laser control of atoms and molecules'. They include the laser selection of atomic and molecular velocities for the purpose of Doppler-free spectroscopy, laser control of the position and velocity of atoms (i.e. laser trapping and cooling of atoms), and laser control of atomic and molecular

processes (ionization, dissociation) with a view of detecting single atoms and molecules and particularly separating isotopes and nuclear isomers. Over the last decades the principal problems posed have been successfully solved, and many of them have evolved remarkably in the subsequent investigations of the international research community. For example, the solution of the problem of laser cooling and trapping of atoms has given birth to the new field of the physics of ultracold matter, i.e. quantum atomic and molecular gases. The laser non-coherent control of uni-molecular processes has found an interesting extension in the field of laser coherent control of molecules. The concept of laser control of position has been successfully demonstrated with microparticles (optical tweezers), concurrently with investigations into atomic control. The laser photo-ionization of molecules on surfaces has led to the development of novel techniques of laser-assisted mass spectrometry of macromolecules, and so on. The aim of this book is to review these topics from a unified or 'coherent' point of view. It will be useful for many readers in various fields of laser science and its applications. Provides extensive and thoroughly exhaustive coverage of precision laser spectroscopy Presents chapters written by recognized experts in their individual fields Topics covered include cold atoms, cold molecules, methods and techniques for production of cold molecules, optical frequency standards based on trapped single ions, etc

Applicable for researchers and graduate students of optical physics and precision laser spectroscopy We live in an era of information overload. We are bombarded with media, technology, entertainment, and notifications every day. It seems there are hundreds of people and things competing for your attention at any given time. There is no wonder why in the last few years, our attention spans have become shorter and our ability to focus has decreased. Not being able to focus can have a negative effect on how successful we are at work and in our personal lives. Focus is a skill that we develop by training and practice. In this special report you will learn tips and techniques to help improve your focus. Also it will help you to create your plan for improving your productivity. This is volume 3 of 3 (black and white) of ""College Physics,"" originally published under a CC-BY license by Openstax College, a unit of Rice University. Links to the free PDF's of all three volumes and the full volume are at <http://textbookequity.org> This text is intended for one-year introductory courses requiring algebra and some trigonometry, but no calculus. College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications. The analytical aspect (problem solving) is tied back to the conceptual before moving on to another topic. Each introductory chapter, for example, opens with an engaging photograph relevant to the subject of the chapter and interesting applications that are easy for

most students to visualize. *Topographic Laser Ranging and Scanning, Second Edition*, provides a comprehensive discussion of topographic LiDAR principles, systems, data acquisition, and data processing techniques. This edition presents an introduction and summary of various LiDAR systems and their principles and addresses the operational principles of the different components and ranging methods of LiDAR systems. It discusses the subsequent geometric processing of LiDAR data, with particular attention to quality, accuracy, and meeting standards and addresses the theories and practices of information extraction from LiDAR data, including terrain surface generation, forest inventory, orthoimage generation, building reconstruction, and road extraction. Written by leaders in the field, this comprehensive compilation is a must-have reference book for senior undergraduate and graduate students majoring or working in diverse disciplines, such as geomatics, geodesy, natural resources, urban planning, computer vision, and computer graphics. It is also vital resource for researchers who are interested in developing new methods and need in-depth knowledge of laser scanning and data processing and other professionals may gain the same from the broad topics addressed in this book. **New in the Second Edition:** A comprehensive array of new laser ranging and scanning technologies. Developments in LiDAR data format and processing techniques. Regrouping of surface modeling, representations and reconstruction. Enhanced discussions

on the principles and fundamentals beyond small-footprint pulsed laser systems and new application examples. Many new examples and illustrations. Buy now to get the main key ideas from Marion Franklin's *The HeART of Laser-Focused Coaching In The HeART of Laser Focused Coaching* (2019), master coach Marion Franklin teaches the essentials of becoming a better coach. She explains how to avoid common mistakes, stay focused on the client, challenge common beliefs and habits, and ask impactful questions. It's advice that applies to coaches at any level, beginner to expert, regardless of their background or specialization. Franklin encourages an open-minded approach that will help clients achieve a long-lasting transformation. Self-focusing has been an area of active scientific investigation for nearly 50 years. This book presents a comprehensive treatment of this topic and reviews both theoretical and experimental investigations of self-focusing. This book should be of interest to scientists and engineers working with lasers and their applications. From a practical point of view, self-focusing effects impose a limit on the power that can be transmitted through a material medium. Self-focusing also can reduce the threshold for the occurrence of other nonlinear optical processes. Self-focusing often leads to damage in optical materials and is a limiting factor in the design of high-power laser systems. But it can be harnessed for the design of useful devices such as optical power limiters and switches. At a formal level, the

equations for self-focusing are equivalent to those describing Bose-Einstein condensates and certain aspects of plasma physics and hydrodynamics. There is thus a unifying theme between nonlinear optics and these other disciplines. One of the goals of this book is to connect the extensive early literature on self-focusing, filamentation, self-trapping, and collapse with more recent studies aimed at issues such as self-focusing of fs pulses, white light generation, and the generation of filaments in air with lengths of more than 10 km. It also describes some modern advances in self-focusing theory including the influence of beam nonparaxiality on self-focusing collapse. This book consists of 24 chapters. Among them are three reprinted key landmark articles published earlier. It also contains the first publication of the 1964 paper that describes the first laboratory observation of self-focusing phenomena with photographic evidence. Struggling to concentrate? Can't focus for more than a few minutes? If so, you're at the right place. This book has quickly become the gold standard for improving attention, focus, and concentration. That's because it exams concentration from a completely different perspective. Instead of the usual advice of "remove distractions" or "pomodoro technique," it dives deep into the mind and body to discover what exactly creates concentration and what takes it away. You will gain valuable insight into developing the parts of the brain responsible for concentration and reduce the parts that take it away -

Does your mind wander from one unrelated thought to another? - Do you get so lost in thought, you miss what is going around you? - Are you swayed by the slightest distractions? You will learn to manage all this and more. Imagine a life where you can listen in class, finish a project, receive that promotion, write that novel, engage with family, be more present, and enjoy life fully. That's what this book will help you achieve. What are you waiting for? The sooner you start, the sooner you will see results. Ideal for both undergraduate and graduate students in the fields of geography, forestry, ecology, geographic information science, remote sensing, and photogrammetric engineering, *LiDAR Remote Sensing and Applications* expertly joins LiDAR principles, data processing basics, applications, and hands-on practices in one comprehensive source. The LiDAR data within this book is collected from 27 areas in the United States, Brazil, Canada, Ghana, and Haiti and includes 183 figures created to introduce the concepts, methods, and applications in a clear context. It provides 11 step-by-step projects predominately based on Esri's ArcGIS software to support seamless integration of LiDAR products and other GIS data. The first six projects are for basic LiDAR data visualization and processing and the other five cover more advanced topics: from mapping gaps in mangrove forests in Everglades National Park, Florida to generating trend surfaces for rock layers in Raplee Ridge, Utah. Features Offers a comprehensive overview of LiDAR

technology with numerous applications in geography, forestry and earth science Gives necessary theoretical foundations from all pertinent subject matter areas Uses case studies and best practices to point readers to tools and resources Provides a synthesis of ongoing research in the area of LiDAR remote sensing technology Includes carefully selected illustrations and data from the authors' research projects Before every project in the book, a link is provided for users to download data In this thesis, a new lidar (light detection and ranging) ceilometer capable of monitoring cloud base and sensitive to boundary layer aerosols is introduced. The key to this novelty lies in its divided-lens design that addresses a classical lidar problem of balancing transmitter-receiver overlap and signal-to-noise ratio, along with a method for characterizing overlap in the laboratory. Enhanced sensitivity in the near-range of the instrument is achieved without compromising signal-to-noise in a design that is straightforward to manufacture for broad deployment. The instrument, its optical characterization, and its performance in the field are described. The prototype instrument described here has since formed the basis of a commercial sensor for monitoring clouds and aerosols. High-resolution, continuous observations of clouds and aerosols are needed to reduce the large uncertainties in our current understanding of their influence on climate that have been highlighted by the International Panel on Climate Change. And as international health organizations

indicate growing public health threats over the coming decades resulting from poor air quality, extensive aerosol monitoring is required to assess personal exposure to and the health impacts of anthropogenic particulates. Ground-based optical remote sensing measurements made by well-characterized instruments, such as that described in these pages, are critical to this. The secret to completing your business projects in record time is at your fingertips! Are you a creative entrepreneur or business owner who struggles to complete projects? Have you been dreaming of writing a book or creating an online course, but you never manage to find the time to do it? Workcations are the solution. The workcation is NOT about combining your family holiday with remote work. It's NOT about a romantic getaway with your partner where you get some work done in your free time. If you're half-working and half-relaxing while on holiday, you're not doing either of those things very well. The workcation IS about laser-focused getaways where you focus on ONE project so you can get more done in less time. By getting away from your usual work environment and focusing on just ONE project, you'll set the perfect stage for getting things done. You'll be able to work at lightning speed, so you can get into the flow state and achieve your goals in record time. You can use your workcation for both creative projects AND practical projects, and this book will teach you how. You will learn: Why workcations work so well Where to go and where NOT to go What to do and what NOT to do

How to stay focused and get things done
How to plan a workcation in a global pandemic
How to plan the perfect workcation for you
The author has been doing workcations every month since 2015, and they have completely transformed her business and life. The workcation is how she's written more than 20 books and workbooks. It's how she completely rebranded her business and website in just three days. It's how she created an entire online course in one weekend. If you've been struggling to get things done, or if you have a project that you keep putting off, the workcation is the answer. Click to **BUY NOW** and learn how to get more done in less time so you can achieve your goals! What would it mean for your coaching if you got right to the heart of the matter - every time? You can. Learn rarely taught tips and concepts that will immediately elevate your coaching while avoiding the common pitfalls. New and experienced coaches alike will benefit greatly from the detailed strategies and wisdom shared from Marion's years of experience. -Cheryl Richardson, NYTimes Bestselling author of *Take Time for Your Life*
Marion Franklin, the Coach's Coach, has been training and mentoring coaches for more than 20 years. Every student she has mentored or taught who sought ACC, PCC, or MCC has gotten their credential using the material in this book designed for all levels of coaches. No matter where you are in your coaching journey, this book has something for you. This book is different because it: Includes brilliant tools for

beginner-to-seasoned coaches Offers advanced techniques for developing powerful questions without any lists Provides principles of human behavior that help you quickly identify what's really going on Contains the 25 Themes that underlie every coaching situation and make coaching and questioning much simpler Shares a step-by-step, easy to follow, way to create a shift in perspective Presents 17 strategies that clients unknowingly use that actually work against, not for them Begin using even one or two of the concepts and principles in this book and notice your coaching immediately elevate to a new level. Your clients will notice the difference You will experience this innovative approach to masterful coaching with two full laser-coaching sessions with commentary - much like eavesdropping in on the mind of a master coach. Marion shares unprecedented concepts that will help new coaches and even the most experienced coaches gain new insights and ideas, including a deeper understanding of what they already know. Automatically improve your coaching by applying one rarely known principle. Never feel stuck around what question to ask. Feel more confident by quickly identifying what's really going on. Know exactly what to listen for in every conversation. Discover a simple "2 inquiry" approach that instantly enables you to deepen your curiosity. This book will not only boost your confidence and mastery as a coach, it will enable you to produce sustained results for your clients. I designed this book to not only show you

what laser-focused coaching looks, sounds, and feels like, but to show you HOW TO coach for permanent, life-altering change. When using the Laser-Focused approach, you'll be able to: avoid getting seduced by the story ask questions that get right to the heart of the matter have the client do all of the summary know how to create the shift and what to do afterwards recognize the client's underlying pattern and know how to address it and so much more

The HeART of Laser-Focused Coaching -- A revolutionary, unprecedented approach makes coaching easier while also enhancing your ability to help clients create deep and profound change. Transform your coaching into something so powerful and life-changing that your coaching consistently flows and becomes effortless. This textbook provides in-depth treatment of all systems associated with wind energy, including the aerodynamic and structural aspects of blade design, the flow of energy and loads through the wind turbine, the electrical components and power electronics including control systems. It explains the importance of wind resource assessment techniques, site evaluation and ecology and describes the integration of wind farms into the electrical grid. The reader will also become familiar with the offshore technology, the youngest and most promising aspect of wind energy. The completely revised and updated new edition provides new sections on fatigue design, analytical models for structural analysis and topology optimization. The book is written by experts in

research, teaching and industry. It conveys the importance of wind energy in the international energy policy debate and offers clear insight into the subject for all students learning about wind engineering. Problems with solutions are perfect for self-study. It is also an authoritative resource for engineers designing and developing wind energy systems, energy policy-makers and economists in the renewable energy sector. The translation of some chapters was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content.

Want to be Laser-Focused, Increase Your Productivity and Get Results in Life? We are living in the age of technology. It's also supposed to be the age of efficiency, but it appears to be filled with challenges from the same things that are supposed to help us. We can easily sink and drown in the clutter, and it's quite easy to get lost. Is it even possible to find our focus in a world that's so full of distractions? Clear answer: Yes. Being laser-focused is probably more difficult than ever, but it's definitely possible. How? Read on... Finding Focus: What is Focus? Focus is simply defined as the ability to pay attention. It changes our perception of the world around us. When we are focused, our ability to ignore things that surround us is incredibly heightened. This is why at work, when we are "in the zone," we hardly notice what goes on around us. Unless we allow ourselves to pay attention to our surroundings, we remain oblivious to events that

occur and stay laser-focused on the task we are currently doing. Unfortunately, being in the zone is a rare occurrence. Most of us get easily distracted. And while we may be physically present at work, our mind is elsewhere. Discover: How to be Laser-Focused Here's the good news: We don't have to be Jedi Knights trained by Yoda to be laser-focused. We just have to be aware of ourselves, of what goes on, of our habits, our attitude and the way we generally respond to certain stimuli that distract us from work. In this book you will discover 28 effective tactics everyone can learn to be more focused and increase their productivity. You'll also learn why a focused mind will help you to live a better life and as bonus you will get a list with 10 of the best tools to beat distraction. Remember: There isn't much we can do about the things around us, but we are in full control of how we respond to all of it. Want to Know More? Just scroll to the top of the page, select the buy button, and start being laser-focused today. Provides advice on how to build a personal brand to achieve maximum potential and success. Learn How to Supercharge Your Focus! Why do successful people get so much more done in a day? Because they have mastered the power of deep focus. Let's face it: we all have the same 24 hours in day. Yet, they're stacking cash, and you're not. Not yet... Now, I'm not saying that developing super focus will make you a millionaire. But I can guarantee you one thing: you won't get there if you can't master the ability to concentrate! Get

Your Copy of 'Super Focus' In today's world, distractions are all around us. Notifications, email, social media, and advertising are all vying for your attention. If you think about it, it's really a miracle we get shit done at all! But this also creates opportunity. For you. If you are able to take control of your life and become a focus master, the world is at your feet. Super Focus is a powerful asset to have, regardless of what you do. Really, if you want to live a fulfilled and productive life, set goals, and achieve them, understanding how you can concentrate deeply is where it all starts! Why You Should Check Out 'Super Focus' How would you like to be more productive and do it with more ease? 'Super Focus: How to Turn Your Brain into a Laser-Sharp Concentration Machine' is jam-packed with proven, powerful tools to supercharge your concentration powers. It is the #1 blueprint if you want to boost your productivity and achieve your goals. What's most important: I will take you by the hand and teach you everything you need to know to become a super focus master. Here is What You Will Learn: - What is Focus? - Six Simple Ways to Improve Your Focus NOW - The Importance of Self-Discipline and Environment - How to Beat Procrastination - Willpower - The Backup Asset You Need to Have - How to Create Powerful Habits - And Much More! And Here's The Cool Thing at the end of every chapter, you will find Action Steps. These allow you to (1) reflect on what you learned, and (2) encourage you to take action. Finally, as a FREE & EXCLUSIVE

BONUS, you'll also get the chapter 'What is Accelerated Learning?' from my other popular book 'Accelerated Learning'. To recap If you apply what you will learn in 'Super Focus', anything you set your mind to becomes possible. So, let's get started, shall we? Take action now! Scroll to the top of this page and click the 'Buy Now' button. This book covers the fundamentals and applications of Carbon Nanofiber (CNF). In the first section, the initial chapter on the fundamentals of CNF is by Professor Maheshwar Sharon, the recognized “Father of Carbon Nanotechnology in India”, which powerfully provides a succinct overview of CNFs. This is followed by a chapter on biogenics that have produced unique morphologies of CNF that makes them suitable to various applications. This is followed by a chapter that mainly focuses on nanocomposites, especially those involving nanocomposites of CNF. The role of nanocatalysts and composites in promoting and enhancing the synthesis and application of CNF is then covered, followed by an important chapter on the characterization of CNF. The second section of the book encompasses the various applications of CNF, such as its use as a possible superconductor to adsorb and store hydrogen, and as a microwave absorber. The application of CNF for environmental concerns is also detailed by assessing its usefulness in dye and heavy metal removal from polluted water. The applications that are addressed include lithium-ion battery, solar cell, antenna, cosmetics,

usefulness in regenerative medicine, as well as various aspects of agrotechnology. Compared with traditional remote sensing technologies, airborne Lidar data can provide researchers with additional 3D positional information, which is a key factor for advanced urban research, and particularly that of urban landscape ecology. Therefore, the need for applying Lidar data to a variety of disciplines is rapidly growing. However, the lack of remote sensing background makes the wider use of Lidar data highly difficult for scholars from other disciplines. In contrast to the majority of Lidar-related books that focus on sophisticated principles and general applications of Lidar data, this book provides the reader with a feasible framework for applying airborne Lidar data to urban research. In addition to providing a general introduction to the subject, this book explains in detail a series of case studies to demonstrate how these theoretical models can be employed to address practical urban issues. As such, this book not only provides Lidar scholars with a series of specifically designed research methods, but will also serve to inspire scholars from other disciplines, such as geographers, urban planners, ecologists, and decision-makers, with a complete framework of potential application fields. "Global electro-optic technology and markets." "Photonics technologies & solutions for technical professionals worldwide." A hands-on reference to the technical, commercial, and industrial aspects of VCSEL technology In VCSEL Industry: Communication

and Sensing, a team of distinguished researchers and manufacturing professionals deliver a thorough and practical reference guide to vertical-cavity surface-emitting lasers (VCSELs) for young entrepreneurs, investors, venture capitalists, and researchers. The authors offer comprehensive descriptions of the technology involved, as well as a robust exploration of the industry and commercial landscape in which VCSELs exist. The book contains numerous illustrations and schematics of the anatomy of VCSEL product developments and an insightful discussion of the proliferation of VCSELs in photonics and optics. There is also a dedicated section on photoreceivers used for VCSEL-based data communications and sensing.

VCSEL Industry: Communication and Sensing provides readers with an accessible, commercial perspective of an important technology while offering just enough technical detail to make sense of the subject. The book also includes:

- A thorough introduction to VCSELs, including discussions of semiconductor lasers, materials, wavelengths, and why VCSELs are attractive for photonics applications
- Comprehensive explorations of the VCSEL industry, including market demands, an industry landscape, descriptions of commercial products based on VCSELs, and business models
- Practical discussions of VCSELs for data communication, including high-speed VCSELs, gain and parasitic effects on bandwidth and speed, and form factors and standards
- In-depth examinations of VCSEL

arrays for sensing, including high-power VCSELs in consumer electronics Perfect for early-career researchers, engineers, entrepreneurs, investors, and managers, VCSEL Industry: Communication and Sensing will also prove to be an invaluable addition to the libraries of executives from across the semiconductor industry.

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