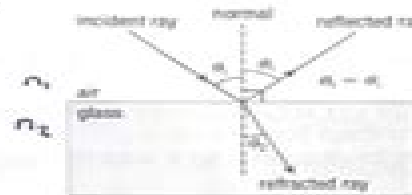


Lesson 2 – Refraction and Total Internal Reflection

Refraction

- Refraction is the **bending of light** as it travels at an angle from one medium to another
- A **refracted ray** occurs when light transmits into a transparent material
- When light travels from a **less optically dense medium into a more optically dense** medium (i.e. air into glass), the refracted ray bends **toward the normal**
- If light travels through a substance and back into the original substance (i.e. air to glass to air), the refracted ray emerging from the glass will be **parallel to the incident ray**

n = index of refraction
how quickly light
can bend in a
medium (ratio)



Jan 2015 Physics Unit 4

Arthur Tatnall, Christopher Leslie



Jan 2015 Physics Unit 4:

International Communities of Invention and Innovation Arthur Tatnall, Christopher Leslie, 2016-11-30 This book contains revised selected papers presented at the IFIP WG 9.7 International Conference on the History of Computing HC 2016 held in Brooklyn NY USA in May 2016. The 13 full papers included in this volume were carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics related to the history of computing and focus on the history of pre-existing relationships and communities that led to triumphs and dead ends in the history of computing. This broad perspective helps to tell a more accurate story of important developments like the Internet and provide a better understanding of how to sponsor future invention and innovation. They reflect on histories that foreground the international community along four broad themes: invention, policy, infrastructure, and social history.

The Anthropocene as a Geological Time Unit Jan Zalasiewicz, Colin N. Waters, Mark Williams, Colin P. Summerhayes, 2019-03-07 Reviews the evidence underpinning the Anthropocene as a geological epoch written by the Anthropocene Working Group investigating it. The book discusses ongoing changes to the Earth system within the context of deep geological time, allowing a comparison between the global transition taking place today with major transitions in Earth history.

Clipped Wings Deborah Ancell, 2016-10-04 Within the developed world, airlines have responded to the advice of advocates for corporate social and environmental responsibility (CSER) to use the intertwined dimensions of economics, society, and environment to guide their business activities. However, disingenuously, the advocates and regulators frequently pay insufficient attention to the economics, which are critical to airlines' sustainability and profits. This omission pushes airlines into the unprofitable domain of CSERplus. The author identifies alleged market inefficiencies and failures, examines CSERplus impacts on international competition, and assesses the unintended consequences of the regulations. She also provides innovative ideas for future proofing airlines. *Clipped Wings* is a treatise for business professionals featuring academic research as well as industry anecdotes. It is written for airlines, including their owners, employees, passengers, and suppliers; airports; trade associations; policy makers; educators; students; consultants; CSERplus specialists; and anyone who is concerned about the future of competitive airlines.

PROGRESS IN PHYSICS, Vol. 15. The Journal on Advanced Studies in Theoretical and Experimental Physics, including Related Themes from Mathematics Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, Progress in Physics has been created for rapid publications on advanced studies in theoretical and experimental physics including related themes from mathematics and astronomy.

A Hardware Track-Trigger for CMS Thomas Owen James, 2019-10-28 The work described in this PhD thesis is a study of a real implementation of a track finder system which could provide reconstructed high transverse momentum tracks to the first level trigger of the High Luminosity LHC upgrade of the CMS experiment. This is vital for the future success of CMS since otherwise it will be impossible to achieve the trigger selectivity needed to contain the very high event rates. The unique and extremely challenging requirement of the system is to utilise the enormous volume

of tracker data within a few microseconds to arrive at a trigger decision The track finder demonstrator described proved unequivocally using existing hardware that a real time track finder could be built using present generation FPGA based technology which would meet the latency and performance requirements of the future tracker This means that more advanced hardware customised for the new CMS tracker should be even more capable and will deliver very significant gains for the future physics returns from the LHC

Full STEAM Ahead Cherie P. Pandora, Kathy Fredrick, 2017-10-03 This book is a toolkit for youth and young adult librarians school and public who wish to incorporate science technology engineering art and math STEAM into their programs and collections but aren't sure where to begin Most educators are well aware of the reasons for emphasizing STEAM topics that fall within the broad headings of science technology engineering arts and mathematics in the curriculum regardless of grade level But how do librarians who work with tweens in middle school high school and public libraries fit into the picture and play their roles to underscore their relevance in making STEAM initiatives successful This book answers those key questions providing program guidelines and resources for each of the STEAM areas Readers will learn how to collaborate in STEAM efforts by providing information on resources activities standards conferences museums programs and professional organizations Emphasis is placed on encouraging girls and minorities to take part in and get excited about STEAM In addition the book examines how makerspaces can enhance this initiative how to connect your programs to educational standards where to find funding how to effectively promote your resources and programs including how school and public librarians can collaborate to maximize their efforts how to find and provide professional development and how to evaluate your program to make further improvements and boost effectiveness Whether you are on the cusp of launching a STEAM initiative or looking for ways to grow and enhance your program this book will be an invaluable resource

Safety and Reliability. Theory and Applications Marko Cepin, Radim Bris, 2017-06-14 Safety and Reliability Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference ESREL 2017 Portoro Slovenia June 18-22 2017 The book covers a wide range of topics including Accident and Incident modelling Economic Analysis in Risk Management Foundational Issues in Risk Assessment and Management Human Factors and Human Reliability Maintenance Modeling and Applications Mathematical Methods in Reliability and Safety Prognostics and System Health Management Resilience Engineering Risk Assessment Risk Management Simulation for Safety and Reliability Analysis Structural Reliability System Reliability and Uncertainty Analysis Selected special sessions include contributions on the Marie Skłodowska-Curie innovative training network in structural safety risk approaches in insurance and finance sectors dynamic reliability and probabilistic safety assessment Bayesian and statistical methods reliability data and testing organizational factors and safety culture software reliability and safety probabilistic methods applied to power systems socio-technical economic systems advanced safety assessment methodologies extended Probabilistic Safety Assessment reliability availability maintainability and safety in railways theory big data risk analysis and

management and model based reliability and safety engineering Safety and Reliability Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including Aeronautics and Aerospace Automotive Engineering Civil Engineering Electrical and Electronic Engineering Energy Production and Distribution Environmental Engineering Information Technology and Telecommunications Critical Infrastructures Insurance and Finance Manufacturing Marine Industry Mechanical Engineering Natural Hazards Nuclear Engineering Offshore Oil and Gas Security and Protection Transportation and Policy Making **Ice-Houses** Alireza Dehghani-Sanij, Mehdi N. Bahadori, 2021-05-06 Ice Houses Energy Architecture and Sustainability presents new and novel technologies and approaches surrounding daily and seasonal ice storage along with discussions on passive cooling and natural technologies using different methods including heat pumps The book covers different aspects of ice houses and cold energy production storage and utilization By addressing various issues connected to the technology and structure of traditional ice houses and natural and artificial ice making this references looks at new technological approaches for the reduction of electrical energy consumption in buildings Users will find this to be a comprehensive overview of ice house storage that includes worked examples and global case studies It is an essential resource for researchers and engineers looking to advance their understanding of this method of thermal storage Includes worked examples which calculate and determine the amounts of different parameters to help better understand the problem solving process Provides a comprehensive literature review on the history and architecture of ice houses along with different ice production and storage methods Contains recent developments related to cold energy production and storage through ice making to reduce electricity demand *XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016* Efthymou Kyriacou, Stelios Christofides, Constantinos S. Pattichis, 2016-03-31 This volume presents the proceedings of Medicon 2016 held in Paphos Cyprus Medicon 2016 is the XIV in the series of regional meetings of the International Federation of Medical and Biological Engineering IFMBE in the Mediterranean The goal of Medicon 2016 is to provide updated information on the state of the art on Medical and Biological Engineering and Computing under the main theme Systems Medicine for the Delivery of Better Healthcare Services Medical and Biological Engineering and Computing cover complementary disciplines that hold great promise for the advancement of research and development in complex medical and biological systems Research and development in these areas are impacting the science and technology by advancing fundamental concepts in translational medicine by helping us understand human physiology and function at multiple levels by improving tools and techniques for the detection prevention and treatment of disease Medicon 2016 provides a common platform for the cross fertilization of ideas and to help shape knowledge and scientific achievements by bridging complementary disciplines into an interactive and attractive forum under the special theme of the conference that is Systems Medicine for the Delivery of Better Healthcare Services The programme consists of some 290 invited and submitted papers

on new developments around the Conference theme presented in 3 plenary sessions 29 parallel scientific sessions and 12 special sessions

A Concise Guide to Communication in Science and Engineering David H. Foster, 2017 This guide offers a comprehensive but concise resource based on extensive carefully analysed examples from the published literature It enables students and researchers in science and engineering to write and present material to a professional modern standard efficiently and painlessly and with maximum impact

100 Years of ›Tractatus Logico-Philosophicus‹ - 70 Years after Wittgenstein's Death Esther Heinrich-Ramharter, Alois Pichler, Friedrich Stadler, 2025-04-21 This volume covers the origin interpretations and reception of Wittgenstein's Tractatus Logico Philosophicus and offers a critical assessment of the related research and contemporary historiography The authors deal with an evaluation of research on Wittgenstein's philosophy life and work as well as of the editions of his work published since his death This includes upcoming editions with a special focus on the availability of Wittgenstein's digital Nachlass Special attention is given to the reception of and references to the Tractatus in the middle and later Wittgenstein as well as the reception by other philosophers Moreover open philosophical ethical and unresolved scientific questions are addressed with a critical investigation of current research Furthermore the complex diverse and mutual relation of Wittgenstein and the Vienna Circle of Moritz Schlick Otto Neurath Friedrich Waismann and others are addressed

Silicon Photonics for High-Performance Computing and Beyond Mahdi Nikdast, Sudeep Pasricha, Gabriela Nicolescu, Ashkan Seyedi, Di Liang, 2021-11-16 Silicon photonics is beginning to play an important role in driving innovations in communication and computation for an increasing number of applications from health care and biomedical sensors to autonomous driving datacenter networking and security In recent years there has been a significant amount of effort in industry and academia to innovate design develop analyze optimize and fabricate systems employing silicon photonics shaping the future of not only Datacom and telecom technology but also high performance computing and emerging computing paradigms such as optical computing and artificial intelligence Different from existing books in this area Silicon Photonics for High Performance Computing and Beyond presents a comprehensive overview of the current state of the art technology and research achievements in applying silicon photonics for communication and computation It focuses on various design development and integration challenges reviews the latest advances spanning materials devices circuits systems and applications Technical topics discussed in the book include Requirements and the latest advances in high performance computing systems Device and system level challenges and latest improvements to deploy silicon photonics in computing systems Novel design solutions and design automation techniques for silicon photonic integrated circuits Novel materials devices and photonic integrated circuits on silicon Emerging computing technologies and applications based on silicon photonics Silicon Photonics for High Performance Computing and Beyond presents a compilation of 19 outstanding contributions from academic and industry pioneers in the field The selected contributions present insightful discussions and innovative approaches to understand current and future bottlenecks in high performance

computing systems and traditional computing platforms and the promise of silicon photonics to address those challenges It is ideal for researchers and engineers working in the photonics electrical and computer engineering industries as well as academic researchers and graduate students M S and Ph D in computer science and engineering electronic and electrical engineering applied physics photonics and optics

New Frontiers in Multiscale Modelling of Advanced Materials Simone Taioli, Maurizio Dapor, Nicola M. Pugno, 2016-01-22 Atomistic simulations based on ab initio and semi empirical approaches are nowadays widespread in many areas of physics chemistry and more recently biology Improved algorithms and increased computational power widened the areas of application of these computational methods to extended materials of technological interest in particular allowing unprecedented access to the first principles investigation of their electronic optical thermodynamical and mechanical properties even where experiments are not available However for a big impact on the society this rapidly growing field of computational approaches to materials science has to face the unfavourable scaling with the system size and to beat the time scale bottleneck Indeed many phenomena such as crystal growth or protein folding for example occur in a space time scale which is normally out of reach of present simulations Multi scale approaches try to combine different scale algorithms along with matching procedures in order to bridge the gap between first principles and continuum level simulations This Research Topic aims at the description of recent advances and applications in these two emerging fields of ab initio and multi scale materials modelling for both ground and excited states A variety of theoretical and computational techniques are included along with the application of these methods to systems at increasing level of complexity from nano to micro Crossing the borders between several computational theoretical and experimental techniques this Research Topic aims to be of interest to a broad community including experimental and theoretical physicists chemists and engineers interested in materials research in a broad sense

Clinical Radiation Oncology E-Book Leonard L. Gunderson, Joel E. Tepper, 2015-06-16 Perfect for radiation oncology physicians and residents needing a multidisciplinary treatment focused resource this updated edition continues to provide the latest knowledge in this consistently growing field Not only will you broaden your understanding of the basic biology of disease processes you ll also access updated treatment algorithms information on techniques and state of the art modalities The consistent and concise format provides just the right amount of information making Clinical Radiation Oncology a welcome resource for use by the entire radiation oncology team Content is templated and divided into three sections Scientific Foundations of Radiation Oncology Techniques and Modalities and Disease Sites for quick access to information Disease Sites chapters summarize the most important issues on the opening page and include a full color format liberal use of tables and figures a closing section with a discussion of controversies and problems and a treatment algorithm that reflects the treatment approach of the authors Chapters have been edited for scientific accuracy organization format and adequacy of outcome data such as disease control survival and treatment tolerance Allows you to examine the therapeutic management of specific disease sites based on single modality and combined

modality approaches Features an emphasis on providing workup and treatment algorithms for each major disease process as well as the coverage of molecular biology and its relevance to individual diseases Two new chapters provide an increased emphasis on stereotactic radiosurgery SRS and stereotactic body irradiation SBRT New Associate Editor Dr Andrea Ng offers her unique perspectives to the Lymphoma and Hematologic Malignancies section Key Points are summarized at the beginning of each disease site chapter mirroring the template headings and highlighting essential information and outcomes Treatment algorithms and techniques together with discussions of controversies and problems reflect the treatment approaches employed by the authors Disease Site Overviews allow each section editor to give a unique perspective on important issues while online updates to Disease Site chapters ensure your knowledge is current Disease Site chapters feature updated information on disease management and outcomes Thirty all new anatomy drawings increase your visual understanding Medicine eBook is accessible on a variety of devices

Manufacturing Engineering and Intelligent

Materials Li Lu,Nooh Abu Bakar,2015-07-28 This volume is a collection of papers from experts and scholars presented at the 2015 International Conference on Manufacturing Engineering and Intelligent Materials ICMEIM 2015 Guangzhou January 30 31 2015 It serves to discuss and share the latest new research results and developments on the topics manufacturing system and control engin

Cytokines as Players of Neuronal Plasticity and Sensitivity to Environment in Healthy and Pathological Brain Silvia Alboni,Laura Maggi,2016-03-18 It is now accepted that immune molecules are not only present within the brain during pathology but they exert physiological functions in the healthy brain as well Increasing evidence points to a neuro modulatory role of cytokines and chemokines CHEMOtactic cytoKINES in basal transmission and plasticity processes where signaling between peri synaptic astrocytes microglia and neurons plays an important role Nevertheless the exact mechanisms as to how cytokines and in particular chemokines participate in the molecular and cellular processes thought to subserve memory formation plasticity processes and responsiveness to environmental stimuli remain to be clarified Interestingly in in vitro preparations molecules like TNF interleukin IL 1 IL 6 CX3CL1 CXCL12 CCL2 and CCL3 are implicated in synaptic formation and scaling in modulation of glutamatergic transmission in plasticity and neurogenesis in particular in the hippocampus The hippocampus is an extremely plastic structure one of the main neurogenic niches in the adult brain that exhibits a marked sensibility to environmental stimuli Indeed exposure of mice to environmental enrichment EE modifies learning and memory abilities increasing neurogenesis and neuronal plasticity whether exposure to severe stressful experiences diminishes neurotrophic support impairs neurogenesis plasticity and cognition In the hippocampus cytokines play a key role in mediating both positive as well as negative effects of the environment affecting neuronal plasticity also in stress related pathologies such as depression It has been reported that mice lacking type 1 receptor for IL 1 display impaired hippocampal memory and LTP that are restored by EE moreover negative effects on neuronal plasticity and thus behavior induced by stress exposure can be prevented by blocking IL 1 activity In addition mice lacking IL 6 have

improved cognitive functions whereas the absence of microglia driven CX3CR1 signaling increases hippocampal plasticity and spatial memory occluding the potentiating effects of EE However the factors mediating the effect of environmental stimuli on behavior and plasticity has been only partially identified Interestingly it has been suggested that chemokines can play a key role in the flexibility of hippocampal structure and may modulate neuronal signaling during behavior The question is how cytokines may translate environmental stimuli in plasticity and behavioral changes This research topic is proposed to explore the role of cytokines and more in particular chemokines in the modulation of neuronal activity as a fundamental step for the correct brain wiring function and susceptibility to environment We encourage the submission of original research reports review articles commentaries perspectives or short communications in the following but not limited to topics Role of cytokines and chemokines in neuronal plasticity Immune molecules and responsiveness to environment Role of chemokine in the flexibility of hippocampal structure

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Nanoscale Semiconductors Balwinder Raj,Ashish Raman,2022-08-30 This reference text discusses conduction mechanism structure construction operation performance evaluation and applications of nanoscale semiconductor materials and devices in VLSI circuits design The text explains nano materials devices analysis of its design parameters to meet the sub nano regime challenges for CMOS devices It discusses important topics including memory design and testing fin field effect transistor FinFET tunnel field effect transistor TFET for sensors design carbon nanotube field effect transistor CNTFET for memory design nanowire and nanoribbons nano devices based low power circuit design and microelectromechanical systems MEMS design The book discusses nanoscale semiconductor materials device models and circuit design covers nanoscale semiconductor device structures and modeling discusses novel nano semiconductor devices such as FinFET CNTFET and Nanowire covers power dissipation and reduction techniques Discussing innovative nanoscale semiconductor device structures and modeling this text will be useful for graduate students and academic researchers in diverse areas such as electrical engineering electronics and communication engineering nanoscience and nanotechnology It covers nano devices based low power circuit design nanoscale devices based digital VLSI circuits and novel devices based analog VLSI circuits design

The Multi-Agent Transport Simulation MATSim Andreas Horni,Kai Nagel,Kay W. Axhausen,2016-08-10 The MATSim Multi Agent Transport Simulation software project was started around 2006 with the goal of generating traffic and congestion patterns by following individual synthetic travelers through their daily or weekly activity programme It has since then evolved from a collection of stand alone C programs to an integrated Java based framework

which is publicly hosted open source available automatically regression tested It is currently used by about 40 groups throughout the world This book takes stock of the current status The first part of the book gives an introduction to the most important concepts with the intention of enabling a potential user to set up and run basic simulations The second part of the book describes how the basic functionality can be extended for example by adding schedule based public transit electric or autonomous cars paratransit or within day replanning For each extension the text provides pointers to the additional documentation and to the code base It is also discussed how people with appropriate Java programming skills can write their own extensions and plug them into the MATSim core The project has started from the basic idea that traffic is a consequence of human behavior and thus humans and their behavior should be the starting point of all modelling and with the intuition that when simulations with 100 million particles are possible in computational physics then behavior oriented simulations with 10 million travelers should be possible in travel behavior research The initial implementations thus combined concepts from computational physics and complex adaptive systems with concepts from travel behavior research The third part of the book looks at theoretical concepts that are able to describe important aspects of the simulation system for example under certain conditions the code becomes a Monte Carlo engine sampling from a discrete choice model Another important aspect is the interpretation of the MATSim score as utility in the microeconomic sense opening up a connection to benefit cost analysis Finally the book collects use cases as they have been undertaken with MATSim All current users of MATSim were invited to submit their work and many followed with sometimes crisp and short and sometimes longer contributions always with pointers to additional references We hope that the book will become an invitation to explore to build and to extend agent based modeling of travel behavior from the stable and well tested core of MATSim documented here

Nuclear Power in Asia Post Fukushima Zoya Akhter Fathima, 2023-11-03 The 2011 Fukushima nuclear disaster led many to believe that the nuclear era was coming to an end More than ten years since Asia is leading the global nuclear sector Contributing to two thirds of the global construction of reactors and exhibiting its technical prowess in the nuclear research and development arena the future of nuclear power in Asia appears to be on a positive trajectory This development is driven by a mix of urgent necessity aided by the realisation that benefits offered by nuclear power are not just environmental in character but also economic and strategic In this context the book examines the energy trends and the current state of nuclear power in the Asian continent and endeavours to answer the much deliberated question of whether Asia is witnessing a nuclear renaissance again To address this question the book explores the policy responses by Asian countries to the Fukushima disaster It attempts to map the future trajectory of nuclear power in Asia and tries to identify the factors that may accelerate or limit its growth Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan and Bhutan

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