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verilog and its usage has come a long way since its original invention in the mid 80s by phil moorby at the time the average design size

was around ten thousand gates and simulation to validate the design was its primary usage but between then and now designs have increased dramatically in size and automatic logic synthesis from rtl has become the standard design now for most design indeed the language has evolved and been re standardized too over the years many books have been written about verilog my own coauthored with phil moorby had the goal of defining the language and its usage providing examples along the way it has been updated with five new editions as the language and its usage evolved however this new book takes a very different and unique view that of the designer john michael williams has a long history of working and teaching in the field of ic and asic design he brings an in-depth presentation of verilog and how to use it with logic synthesis tools no other verilog book has dealt with this topic as deeply as he has if you need to learn verilog and get up to speed quickly to use it for synthesis this book is for you it is sectioned around a set of lessons including presentation and explanation of new concepts and approaches to design along with lab sessions

while computer security is a broader term which incorporates technologies protocols standards and policies to ensure the security of the computing systems including the computer hardware software and the information stored in it cyber security is a specific growing field to protect computer networks offline and online from unauthorized access botnets phishing scams etc machine learning is a branch of computer science which enables computing machines to adopt new behaviors on the basis of observable and verifiable data and information it can be applied to ensure the security of the computers and the information by detecting anomalies using data mining and other such techniques this book will be an invaluable resource to understand the importance of machine learning and data mining in establishing computer and cyber security it emphasizes important security aspects associated with computer and cyber security along with the analysis of machine learning and data mining based solutions the book also highlights the future research domains in which these solutions can be applied furthermore it caters to the needs of it professionals researchers faculty members scientists

graduate students research scholars and software developers who seek to carry out research and develop combating solutions in the area of cyber security using machine learning based approaches it is an extensive source of information for the readers belonging to the field of computer science and engineering and cyber security professionals key features this book contains examples and illustrations to demonstrate the principles algorithms challenges and applications of machine learning and data mining for computer and cyber security it showcases important security aspects and current trends in the field it provides an insight of the future research directions in the field contents of this book help to prepare the students for exercising better defense in terms of understanding the motivation of the attackers and how to deal with and mitigate the situation using machine learning based approaches in better manner

key features gain a clear understanding of the attack methods and patterns to recognize abnormal behavior within your organization with blue team tactics learn to unique techniques to gather exploitation intelligence identify risk and demonstrate impact with red team and blue team strategies a practical guide that will give you hands on experience to mitigate risks and prevent attackers from infiltrating your system book descriptionthe book will start talking about the security posture before moving to red team tactics where you will learn the basic syntax for the windows and linux tools that are commonly used to perform the necessary operations you will also gain hands on experience of using new red team techniques with powerful tools such as python and powershell which will enable you to discover vulnerabilities in your system and how to exploit them moving on you will learn how a system is usually compromised by adversaries and how they hack user s identity and the various tools used by the red team to find vulnerabilities in a system in the next section you will learn about the defense strategies followed by the blue team to enhance the overall security of a system you will also learn about an in depth strategy to ensure that there are security controls in each network layer and how you can carry out the recovery process of a compromised system finally you will learn how to create a vulnerability management strategy and the different

techniques for manual log analysis what you will learn learn the importance of having a solid foundation for your security posture understand the attack strategy using cyber security kill chain learn how to enhance your defense strategy by improving your security policies hardening your network implementing active sensors and leveraging threat intelligence learn how to perform an incident investigation get an in depth understanding of the recovery process understand continuous security monitoring and how to implement a vulnerability management strategy learn how to perform log analysis to identify suspicious activities who this book is for this book aims at it professional who want to venture the it security domain it pentester security consultants and ethical hackers will also find this course useful prior knowledge of penetration testing would be beneficial

millets are diverse small seeded crops which are resilient to climatic stress pests and diseases these can be grown in rainfed conditions with minimal agricultural inputs these are considered nutritionally superior to other major cereals like rice wheat and maize as they contain a significant amount of protein dietary fibre and minerals today millets are recognized and considered as integral components of a sustainable food system millets have low glycaemic index and are beneficial for diabetics millet protein is devoid of gluten making them a better option than wheat for patients with gluten sensitivity millets cultivation processing and utilization covers information on taxonomy morphology germplasm accessions cultivation practices harvesting methods threshing cleaning storage milling structural and engineering properties nutritional and anti nutritional values health benefits food applications by products non food applications quality standards and prospects in millet processing this book s sixteen in depth chapters give readers complete information on all facets of millet cultivation processing and use it is a unique compilation of information on millets from farm to fork and beyond this book will be useful for students researchers farmers and entrepreneurs in understanding millets and their applications it has been compiled by experts in the field and can serve as a guidance document for the stakeholders

in an era where digital security transcends mere convenience to become a pivotal aspect of our daily lives spies in the bits and bytes the art of cyber threat intelligence by dr atif and dr baber emerges as a critical beacon of knowledge and understanding this book delves into the shadowy world of cyber threats unraveling the complex web of digital espionage cybercrime and the innovative defenses that stand between safety and digital chaos dr atif leveraging his profound expertise in artificial intelligence and cybersecurity offers not just an exploration but a comprehensive guide to navigating the tumultuous digital landscape what sets this book apart is its unique blend of technical depth real world examples and accessible writing making the intricate world of cyber threats understandable and engaging for a broad audience key features of spies in the bits and bytes include in depth analysis of cyber threats unveiling the latest and most sophisticated cyber threats facing our world today cutting edge defense strategies exploring the use of artificial intelligence ai and machine learning in crafting dynamic cyber defenses real world case studies providing engaging examples that illustrate the impact of cyber threats and the importance of robust cybersecurity measures accessible insights demystifying complex cybersecurity concepts for readers of all backgrounds forward looking perspectives offering insights into the future of cyber threats and the evolving landscape of cyber defense this book is an essential resource for anyone keen on understanding the intricacies of cybersecurity and the critical role it plays in our interconnected society from cybersecurity professionals it students and corporate leaders to policy makers and general readers with an interest in the digital world spies in the bits and bytes serves as a comprehensive guide to the challenges and solutions in the realm of cyber threat intelligence preparing its audience for the ongoing battle against digital adversaries

the international handbook on teaching and learning economics is a power packed resource for anyone interested in investing time into the effective improvement of their personal teaching methods and for those who desire to teach students how to think like an

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involved in the teaching of economics graduate students new teachers lecturers faculty researchers chairs deans and directors trace gas sensing technologies are widely used in many applications such as environmental monitoring life science medical diagnostics and planetary exploration on the one hand laser sources have developed greatly due to the rapid development of laser media and laser techniques in recent years some novel lasers such as solid state diode and quantum cascade lasers have experienced significant progress at present laser wavelengths can cover the range from ultraviolet to terahertz which could promote the development of laser gas sensing technologies significantly on the other hand some new gas sensing methods have appeared such as photothermal spectroscopy and photoacoustic spectroscopy laser spectroscopy based gas sensing techniques have the advantages of high sensitivity non invasiveness and allowing in situ real time observation due to the rapid and recent developments in laser source as well as the great merits of laser spectroscopy based gas sensing techniques this book aims to provide an updated overview of the state of the art laser gas sensing technologies

geographically and demographically asia is a huge region with a large number of societies and cultures each affected by their own unique problems including over population major natural disasters poverty and changing social and economic factors inevitably this means that different mental health needs have developed across the region colonialism globalization industrialization and urbanization have brought major demographic and cultural shifts in the region but clinical mental health practices and services and societal attitudes to mental health issues vary enormously this handbook surveys the state of the current psychiatric care field across the whole asia pacific region focusing on individual countries each chapter will include a summary of factors affecting the practice and provision of psychiatric care including cultural attitudes to mental health issues coverage of the conceptualisation causation and prevalence of

mental health issues in society an overview of mental health care services and systems available and workforce training coverage of country specific innovative practices and folk therapies as the first major reference work on psychiatric care in asia this book is an essential resource for scholars and students researching mental health in asia as well as psychiatrists and other mental health professionals working in the region

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what happens when an innocent prank goes horribly wrong natasha riya anjali and katherine were best friends in college each different from the other yet inseparable until that night it was the night that began with a bottle of whisky and a game of ouija but ended with the death of sania their unlikeable hostel mate the friends vowed never to discuss that fateful night a pact that had kept their friendship and guilt dormant for the last twenty years but now someone has begun to mess with them threatening to reveal the truth that only sania knew is it a hacker playing on their guilt or has sania s ghost really returned to avenge her death as the faceless enemy closes in on them the friends come together once again to recount what really happened that night but when the story is retold by each of them the pieces don t fit because none of them is telling the whole truth that night is a dark twisted tale of friendship and betrayal that draws you in and confounds you at every turn

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