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The ultimate collection of DIY Arduino projects! In this easy-to-follow book, electronics guru Simon Monk shows you how to create a wide variety of fun and functional gadgets with the Arduino Uno and Leonardo boards. Filled with step-by-step instructions and detailed illustrations, The TAB Book of Arduino Projects: 36 Things to Make with Shields and Proto Shields provides a cost estimate, difficulty level, and list of required components for each project. You'll learn how to design custom circuits with Proto Shields and solder parts to the prototyping area to build professional-quality devices. Catapult your Arduino skills to the next level with this hands-on guide. Build these and many more innovative Arduino creations: Persistence-of-vision (POV) display High-power LED controller Color recognizer RFID door lock Fake dog Person counter Laser alarm Theramin-like instrument FM radio receiver Email notifier Network temperature and humidity sensor Seven segment LED clock Larson scanner Conway's game of life Singing plant Ultrasonic rangefinder Temperature and light logger Autoranging capacitance meter Geiger counter

This book has been initiated by the workshop on Cultural heritage in changing landscapes, held during the IALE (International Association for Landscape Ecology) European Conference that started in Stockholm, Sweden, in June 200 1 and continued across the Baltic to Tartu, Estonia, in JUly. The papers presented at the workshop have been supported by invited contributions that address a wider range of the cultural heritage management issues and research interfaces required to study cultural landscapes. The book focuses on landscape interfaces. Both the ones we find out there in the landscape and the

ones we face while doing research. We hope that this book helps if not to make use of these interfaces, then at least to map them and bridge some of the gaps between them. The editors wish to thank those people helping us to assemble this collection. First of all our gratitude goes to the authors who contributed to the book. We would like to thank Marc Antrop, Mats Widgren, Roland Gustavsson, Marion Potschin, Barbel Tress, Tiina Peil, Helen Soovali and Anu Printsmann for their quick and helpful advice, opinions and comments during the different stages of editing. Helen Soovali and Anu Printsmann together with Piret Pungas - thank you for technical help. A Clear Outline of Current Methods for Designing and Implementing Automotive Systems Highlighting requirements, technologies, and business models, the Automotive Embedded Systems Handbook provides a comprehensive overview of existing and future automotive electronic systems. It presents state-of-the-art methodological and technical solutions in the areas of in-vehicle architectures, multipartner development processes, software engineering methods, embedded communications, and safety and dependability assessment. Divided into four parts, the book begins with an introduction to the design constraints of automotive-embedded systems. It also examines AUTOSAR as the emerging de facto standard and looks at how key technologies, such as sensors and wireless networks, will facilitate the conception of partially and fully autonomous vehicles. The next section focuses on networks and protocols, including CAN, LIN, FlexRay, and TT-CAN. The third part explores the design processes of electronic embedded systems, along with new design methodologies, such as the virtual platform. The final section presents validation and verification techniques relating to safety issues. Providing domain-specific solutions to various technical challenges, this handbook serves as a reliable, complete, and well-documented source of information on automotive embedded systems.

Provides an accessible introduction to psychoanalytic explanations of consumer desire. Topics are drawn widely to reflect the scope of Freud's vision and include dreams, sexuality and hysteria. Discussion is widened to selectively include authors such as Melanie Klein and Jacques Lacan, and to include evaluation of current research.

This open access book brings together research findings and experiences from science, policy and practice to highlight and debate the importance of nature-based solutions to climate change adaptation in urban areas. Emphasis is given to the potential of nature-based approaches to create multiple-benefits for society. The expert contributions present recommendations for creating synergies between ongoing policy processes, scientific programmes and practical implementation of climate change and nature conservation measures in global urban areas. Except where otherwise noted, this book is licensed under a Creative Commons Attribution 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by/4.0/

'What is a self and how can a self come out of inanimate matter?' This is the riddle that drove Douglas Hofstadter to write this extraordinary book. In order to impart his original and personal view on the core mystery of human existence - our intangible sensation of 'I'-ness - Hofstadter defines

the playful yet seemingly paradoxical notion of 'strange loop', and explicates this idea using analogies from many disciplines.

This report identifies potential improvements in terms of more effective safety and environmental regulation for trucks, backed by better systems of enforcement, and identifies opportunities for greater efficiency and higher productivity.

The fully updated autobiography of Tony 'A.P.' McCoy, Grand National and BBC SPORTS PERSONALITY OF THE YEAR winner and unquestionably the greatest jump jockey ever. Tony 'A.P.' McCoy is without doubt the greatest and most successful jump jockey of all time. He has collected a record 16 consecutive jump-jockey titles to date, since 1992 he has ridden more than 3,000 winners, saying 'I never stop dreaming of the day I'll reach 4,000', and in 2002 he beat Sir Gordon Richards's record of 269 winners in a season by riding 289. In April 2010, A.P. achieved his life-long ambition when he won the Grand National at Aintree on Don't Push It. It was his 15th attempt to win the race, a victory that captured the public's imagination and further enhanced a glittering career in

which he had seemingly won all there was to win. It was the missing piece in the racing jigsaw for a champion jockey who had already had famous victories in the King George VI Chase, Champion Hurdle, Champion Chase and Cheltenham Gold Cup. This powerfully honest autobiography looks at life at the very top in National Hunt racing, and includes the highs and lows of A.P. winning his second Gold Cup, in 2012 on Synchronised, fifteen years after his first, only to see the horse put down after a fall in that year's Grand National. These are the memoirs of a true champion, an icon of sport, whose astonishing achievements are unlikely to be surpassed. It is a great story of courage and modesty, pain and professional setbacks, strong family values and sporting triumphs, the good guy coming first - and staying there.

This book is about coding interview questions from software and Internet companies. It covers five key factors which determine performance of candidates: (1) the basics of programming languages, data structures and algorithms, (2) approaches to writing code with high quality, (3) tips

to solve difficult problems, (4) methods to optimize code, (5) soft skills required in interviews. The basics of languages, algorithms and data structures are discussed as well as questions that explore how to write robust solutions after breaking down problems into manageable pieces. It also includes examples to focus on modeling and creative problem solving. Interview questions from the most popular companies in the IT industry are taken as examples to illustrate the five factors above. Besides solutions, it contains detailed analysis, how interviewers evaluate solutions, as well as why they like or dislike them. The author makes clever use of the fact that interviewees will have limited time to program meaningful solutions which in turn, limits the options an interviewer has. So the author covers those bases. Readers will improve their interview performance after reading this book. It will be beneficial for them even after they get offers, because its topics, such as approaches to analyzing difficult problems, writing robust code and optimizing, are all essential for high-performing coders.

This open access book is a practical introduction to multilevel modelling or multilev-

el analysis (MLA) - a statistical technique being increasingly used in public health and health services research. The authors begin with a compelling argument for the importance of researchers in these fields having an understanding of MLA to be able to judge not only the growing body of research that uses it, but also to recognise the limitations of research that did not use it. The volume also guides the analysis of real-life data sets by introducing and discussing the use of the multilevel modelling software MLwiN, the statistical package that is used with the example data sets. Importantly, the book also makes the training material accessible for download - not only the datasets analysed within the book, but also a freeware version of MLwiN to allow readers to work with these datasets. The book's practical review of MLA comprises: Theoretical, conceptual, and methodological background Statistical background The modelling process and presentation of research Tutorials with example datasets Multilevel Modelling for Public Health and Health Services Research: Health in Context is a practical and timely resource for public health and health services researchers, statisticians

interested in the relationships between contexts and behaviour, graduate students across these disciplines, and anyone interested in utilising multilevel modelling or multilevel analysis. "Leyland and Groenewegen's wealth of teaching experience makes this book and its accompanying tutorials especially useful for a practical introduction to multilevel analysis."— Juan Merlo, Professor of Social Epidemiology, Lund University "Comprehensive and insightful. A must for anyone interested in the applications of multilevel modelling to population health"— S. (Subu) V. Subramanian, Professor of Population Health and Geography, Harvard University.

Electrical codes, standards, recommended practices and regulations can be complex subjects, yet are essential in both electrical design and life safety issues. This book demystifies their usage. It is a handbook of codes, standards, recommended practices and regulations in the United States involving electrical safety and design. Many engineers and electrical safety professionals may not be aware of all of those documents and their applicability. This book identifies those documents by category, allowing the ready and easy access to

the relevant requirements. Because these documents may be updated on a regular basis, this book was written so that its information is not reliant on the latest edition or release of those codes, standards, recommended practices or regulations. No single document on the market today attempts to not only list the majority of relevant electrical design and safety codes, standards, recommended practices and regulations, but also explain their use and updating cycles. This book, one-stop-information-center for electrical engineers, electrical safety professionals, and designers, does. Covers the codes, standards, recommended practices and regulations in the United States involving electrical safety and design, providing a comprehensive reference for engineers and electrical safety professionals Documents are identified by category, enabling easy access to the relevant requirements Not version-specific; information is not reliant on the latest edition or release of the codes, standards, recommended practices or regulations Written by two of the most respected, experienced and well-known researchers and developers in the field (e.g., Kiencke worked at Bosch where he helped develop

anti-breaking system and engine control; Nielsen has lead joint research projects with Scania AB, Mecel AB, Saab Automobile AB, Volvo AB, Fiat GM Powertrain AB, and DaimlerChrysler. Reflecting the trend to optimization through integrative approaches for engine, driveline and vehicle control, this valuable book enables control engineers to understand engine and vehicle models necessary for controller design and also introduces mechanical engineers to vehicle-specific signal processing and automatic control. Emphasis on measurement, comparisons between performance and modelling, and realistic examples derive from the authors' unique industrial experience . The second edition offers new or expanded topics such as diesel-engine modelling, diagnosis and anti-jerking control, and vehicle modelling and parameter estimation. With only a few exceptions, the approaches

The World Investment Report series provides the latest data and analysis foreign direct investment (FDI) and other activities of transnational corporations, as well as the policies to regulate them at the national and international levels. It aims to analyse the cross-border activities of translational corporations and related policy measures with a view to helping policymakers formulate appropriate policy responses.

The successful managers for the next century will be the culturally sensitive ones. You can gain competitive advantage from having strategies to deal with the cultural differences you will encounter in any international business setting. Richard Lewis provides a guide to working and communicating across cultures, and explains how your culture and language affect the ways in which you think and respond. This revised and expanded edition of Richard Lewis's book provides an ever more global and practical guide not just to understanding but also managing in different business cultures. New chapters on more than a dozen countries - from Iraq, Israel and Pakistan to Serbia, Columbia and Venezuela - vastly broaden the range.

An up-to-date, comprehensive treatment of a classic text on missing data in statistics The topic of missing data has gained considerable attention in recent decades. This new edition by two acknowledged experts on the subject offers an up-to-date account of practical methodology for handling missing data problems. Blending theory and application, authors Roderick Little and Donald Rubin review historical approaches to the subject and describe simple methods for multivariate analysis with missing values. They then provide a coherent theory for analysis of problems based on likelihoods derived from statistical models for the data and the missing data mechanism, and then they apply the theory to a wide range of important missing data problems. Statistical Analysis with Missing Data, Third Edition starts by introducing readers to the subject and approaches toward solving it. It looks at the patterns and mechanisms that create the missing data, as well as a taxonomy of missing data. It then goes on to examine missing data in experiments, before discussing complete--case and available-case analysis, including weighting methods. The new edition expands its coverage to include recent work on topics such as nonresponse in sample surveys, causal inference, diagnostic methods, and sensitivity analysis, among a host of other topics. An updated "classic" written by renowned authorities on the subject Features over 150 exercises (including many new ones) Covers recent work on im-

portant methods like multiple imputation, robust alternatives to weighting, and Bayesian methods Revises previous topics based on past student feedback and class experience Contains an updated and expanded bibliography Statistical Analysis with Missing Data, Third Edition is an ideal textbook for upper undergraduate and/or beginning graduate level students of the subject. It is also an excellent source of information for applied statisticians and practitioners in government and industry.

Financial market behavior and key trading strategies—illuminated by interviews with top hedge fund experts Efficiently Inefficient describes the key trading strategies used by hedge funds and demystifies the secret world of active investing. Leading financial economist Lasse Heje Pedersen combines the latest research with real-world examples to show how certain tactics make money—and why they sometimes don't. He explores equity strategies, macro strategies, and arbitrage strategies, and fundamental tools for portfolio choice, risk management, equity valuation, and yield curve trading. The book also features interviews with leading hedge fund managers: Lee Ainslie, Cliff Asness, Jim Chanos, Ken Griffin, David Harding, John Paulson, Myron Scholes, and George Soros. Efficiently Inefficient reveals how financial markets really work.

The first book offering a systematic treatment of the economics of antitrust or competition policy.

This book provides practising executives and academics with the theories and best practices to plan and implement the digital transformation successfully. Key benefits: an overview on how leading companies plan and implement digital transformation interviews with chief executive officers and chief digital officers of leading companies – Bulgari, Deutsche Bahn, Henkel, Lanxess, L'Oréal, Unilever, Thales and others – explore lessons learnt and roadmaps to successful implementation research and case studies on the digitalization of small and medium-sized companies cutting-edge academic research on business models, organizational capabilities and performance implications of the digital transformation tools and insights into how to overcome internal resistance, build digital capabilities, align the organization, develop the ecosystem and create customer value to implement digital strategies that increase profits Managing Digital Transformation is unique in its approach, combining rigorous academic theory with practical insights and contributions from companies that are, according to leading academic thinkers, at the forefront of global best practice in the digital transformation. It is a recommended reading both for practitioners looking to implement digital strategies within their own organisations, as well as for academics and postgraduate students studying digital transformation, strategy and marketing.

The OECD Digital Economy Outlook examines and documents the evolutions and emerging opportunities and challenges in the digital economy. It highlights how OECD countries and partner economies are taking advantage of ICTs and the Internet to meet their public policy objectives.

'Natural Resources: Neither Course nor Destiny' brings together a variety of analytical perspectives, ranging from econometric analyses of economic growth to historical studies of successful development experiences in countries with abundant natural resources. The evidence suggests that natural resources are neither a curse nor

destiny. Natural resources can actually spur economic development when combined with the accumulation of knowledge for economic innovation. Furthermore, natural resource abundance need not be the only determinant of the structure of trade in developing countries. In fact, the accumulation of knowledge, infrastructure, and the quality of governance all seem to determine not only what countries produce and export, but also how firms and workers produce any good.

This manual gives a complete, detailed and up-to-date description of the Eurostat-OECD PPP Programme, including its organisation, the various surveys carried out by participating countries and the ways PPPs are calculated and disseminated. It also provides guidance on the use of PPPs.

This book focuses on issues of method and interpretation in studies of submerged landscapes, concentrating on illustrations and case studies from around Europe with additional examples from other parts of the world. Such landscapes were once exposed as dry land during the low sea levels that prevailed during the glacial periods that occupied most of the past million years and provided extensive new territories for human exploitation. Their study today involves underwater investigation, using techniques and strategies which are clearly set out in these chapters. The underwater landscape provides a rich source of information about the archaeology of human settlement and long-term changes in environment, climate and sea-level. This book highlights how such information can be revealed and interpreted. The examples presented here and the focus on techniques make this book of worldwide relevance. Chapters describe examples of underwater archaeological investigation as well as collaboration with offshore industries and legal, management and training issues relating to underwater cultural heritage. Such studies point to the significance of this drowned landscape, and readers are invited to consider its human impact in terms of past settlement and population dispersal through palaeolandscape reconstruction and interpretation in relation to broader themes in human prehistory. This volume is based on work from COST Action SPLASHCOS, a four-year multi-disciplinary and multi-national research program supported by COST (European Cooperation in Science and Technology) and has something to benefit all those with an interest in the sea floor of the continental shelf and the archaeological and social impact of sea-level change, including archaeologists, marine scientists, geographers, cultural-heritage managers, commercial and governmental organisations, policy makers and interested members of the public.

This book has proved its worth over the years as a text for courses in Production Management at the Faculty of Automotive Engineering in Turin, Italy, but deserves a wider audience as it presents a compendium of basics on Industrial Management, since it covers all major topics required. It treats all subjects from product development and "make or buy"-decision strategies to the manufacturing systems setting and management through analysis of the main resources needed in production and finally exploring the supply chain management and the procurement techniques. The very last chapter recapitulates the previous ones by analysing key management indicators to pursue the value creation that is the real purpose of every industrial enterprise. As an appendix, a specific chapter is dedicated to the basics of pro-

duction management where all main relevant definitions, techniques and criteria are treated, including some numerical examples, in order to provide an adequate foundation for understanding the other chapters. This book will be of use not only to Automotive Engineering students but a wide range of readers who wish to gain insight in the world of automotive engineering and the automotive industry in general.

This open access book describes methods of mortality forecasting and discusses possible improvements. It contains a selection of previously unpublished and published papers, which together provide a state-of-the-art overview of statistical approaches as well as behavioural and biological perspectives. The different parts of the book provide discussions of current practice, probabilistic forecasting, the linearity in the increase of life expectancy, causes of death, and the role of cohort factors. The key question in the book is whether it is possible to project future mortality accurately, and if so, what is the best approach. This makes the book a valuable read to demographers, pension planners, actuaries, and all those interested and/or

working in modelling and forecasting mortality.

Production development is about improving existing production systems and developing new ones. The production system should be developed in integration with the product, as a part of the overall product realization process, and not in sequence after the product has already been designed. Production Development: Design and Operation of Production Systems takes a holistic viewpoint on the production system and its design process during the whole system life cycle. A working procedure demonstrating how to design and realize the production system is presented, together with a number of related production development aspects. Production Development: Design and Operation of Production Systems is illustrated with a large number of figures and industrial examples. The book can be used as a reference for teachers and students, or as a manual for professionals within the field of production.

This book constitutes the refereed proceedings of the 17th IFIP WG 2.13 International Conference on Open Source Systems, OSS

2021, held virtually in May 2021. The 4 full papers and 3 short papers presented were carefully reviewed and selected from 23 submissions. The papers cover a wide range of topics in the field of free/libre open source software (FLOSS) and discuss theories, practices, experiences, and tools on development and applications of OSS systems, with a specific focus on two aspects:(a) the development of open source systems and the underlying technical, social, and economic issue, (b) the adoption of OSS solutions and the implications of such adoption both in the public and in the private sector.

To become or to be an entrepreneur is not a light undertaking. It will break some or make others, but one thing is clear, you should know your own strengths and weakness and suitability for the task before you take the leap. In Entrepreneurship (minus) 101, Trevor K. Whittaker shares ten essential 'secrets', gained from his own extensive business experience. If adopted, they will make success, if not guaranteed, at least attainable. If you are an existing entrepreneur and think you know it all, think again! The overriding mantra is Know Yourself: know your strengths and weakness

and work on those weaknesses before you embark or continue on what is a highly demanding - but ultimately a highly rewarding - journey. So do you have what it takes? Read Entrepreneurship (minus) 101 and find out.

Designing Interactive Systems: People, Activities, Contexts, Technologies is an exciting, new, forward-looking textbook in Human Computer Interaction (HCI). Authoritative in its coverage, this innovative book takes a top-down approach, starting with what is familiar to students and working down to theory/abstract underpinnings. This makes it suitable for beginners with a less technical background as well as advanced students of HCI and can be used at all stages of the curriculum for courses in this dynamic field. The book focuses on and explores this emerging discipline by bringing together the best practice and experience from HCI and interaction design (ID). The approach takes traditional human-centred concepts from HCI, but recognizes that we have gone beyond computers and are concerned with designing engaging interactions between people and a wide range of devices, products and systems. New areas explored include informa-

tion appliances, supported cooperation and ubiquitous computing and systems.

Behavior Trees (BTs) provide a way to structure the behavior of an artificial agent such as a robot or a non-player character in a computer game. Traditional design methods, such as finite state machines, are known to produce brittle behaviors when complexity increases, making it very hard to add features without breaking existing functionality. BTs were created to address this very problem, and enables the creation of systems that are both modular and reactive. Behavior Trees in Robotics and AI: An Introduction provides a broad introduction as well as an in-depth exploration of the topic, and is the first comprehensive book on the use of BTs. This book introduces the subject of BTs from simple topics, such as semantics and design principles, to complex topics, such as learning and task planning. For each topic, the authors provide a set of examples, ranging from simple illustrations to realistic complex behaviors, to enable the reader to successfully combine theory with practice. Starting with an introduction to BTs, the book then describes how BTs relate to,

and in many cases, generalize earlier switching structures, or control architectures. These ideas are then used as a foundation for a set of efficient and easy to use design principles. The book then presents a set of important extensions and provides a set of tools for formally analyzing these extensions using a state space formulation of BTs. With the new analysis tools, the book then formalizes the descriptions of how BTs generalize earlier approaches and shows how BTs can be automatically generated using planning and learning. The final part of the book provides an extended set of tools to capture the behavior of Stochastic BTs, where the outcomes of actions are described by probabilities. These tools enable the computation of both success probabilities and time to completion. This book targets a broad audience, including both students and professionals interested in modeling complex behaviors for robots, game characters, or other AI agents. Readers can choose at which depth and pace they want to learn the subject, depending on their needs and background.

The technology and engineering behind autonomous driving is advancing at pace. This book presents the latest technical ad-

vances and the economic, environmental and social impact driverless cars will have on individuals and the automotive industry.

Some basic knowledge of electronics is assumed, but the essential features of RF are fully described, including the important topic of receiver dynamic which is often overlooked in basic textbooks. The theory and circuit descriptions are geared towards genuine design applications rather than the oversimplifications and skeleton circuits of many college texts. During his career, the late Joe Carr was one of the world's leading writers on electronics and radio, and an authority on the design and use of RF systems. Whether you are looking for a complete self-study course in RF technology, or a concise reference text to dip into, this book has the solution. A complete course in understanding and designing RF circuits Practical design knowhow from a world-class author

During the last decades, improved sensor and hardware technologies as well as new methods and algorithms have made self-driving vehicles a realistic possibility in the near future. Thanks to this technology enhancement, many leading automotive and technology companies have turned their attention towards developing advanced driver assistance systems (ADAS) and self-driving vehicles. Autonomous vehicles are expected to have their first big impact in closed areas, such as mines, harbors and loading/offloading sites. In such areas, the legal requirements are less restrictive and the surrounding environment is more controlled and predictable compared to urban areas. Expected positive outcomes include increased productivity and safety, reduced emissions and the possibility to relieve the human from performing complex or dangerous tasks. Within these sites, different truck and trailer systems are used to transport materials. These systems are composed of several interconnected modules, and are thus large and highly unstable while reversing. This thesis addresses the problem of designing efficient motion planning and feedback control frameworks for such systems. First, a cascade controller for a reversing truck with a dolly-steered trailer is presented. The unstable modes of the system is stabilized around circular equilibrium configurations using a gain-scheduled linear quadratic (LQ) controller together with a higher-level pure pursuit controller to enable path following of piecewise linear reference paths. The cascade controller is then used within a rapidly-exploring random tree (RRT) framework and the complete motion planning and control framework is demonstrated on a small-scale test vehicle. Second, a path following controller for a reversing truck with a dolly-steered trailer is proposed for the case when the obtained motion plan is kinematically feasible. The control errors of the system are modeled in terms of their deviation from the nominal path and a stabilizing LQ controller with feedforward action is designed based on the linearization of the control error model. Stability of the closed-loop system is proven by combining global optimization, theory from linear differential inclusions and linear matrix inequality techniques. Third, a systematic framework is presented for analyzing stability of the closed-loop system consisting of a controlled vehicle and a feedback controller, executing a motion plan computed by a lattice planner. When this motion planner is considered, it is shown that the closed-loop system can be modeled as a nonlinear hybrid system. Based on this, a novel method is presented for analyzing the be-

havior of the tracking error, how to design the feedback controller and how to potentially impose constraints on the motion planner in order to guarantee that the tracking error is bounded and decays towards zero. Fourth, a complete motion planning and control solution for a truck with a dolly-steered trailer is presented. A lattice-based motion planner is proposed, where a novel parametrization of the vehicle's state-space is proposed to improve online planning time. A time-symmetry result is established that enhance the numerical stability of the numerical optimal control solver used for generating the motion primitives. Moreover, a nonlinear observer for state estimation is developed which only utilizes information from sensors that are mounted on the truck, making the system independent of additional trailer sensors. The proposed framework is implemented on a full-scale truck with a dolly-steered trailer and results from a series of field experiments are presented.

This book covers all aspects of supercharging internal combustion engines. It details charging systems and components, the theoretical basic relations between engines and charging systems, as well as layout and evaluation criteria for best interaction. Coverage also describes recent experiences in design and development of supercharging systems, improved graphical presentations, and most advanced calculation and simulation tools.