

Cambridge Technicals In Engineering Ocr

Describes the structure and mechanics of a wide range of cellular materials in botany, zoology, and medicine.

This book is a state-of-the-art description of wind-diesel technology.

Enhance your students' practical skills and develop their key content knowledge with this proven formula for effective, structured revision. Target success in OCR's Cambridge Technical Level 3 Information Technology with this revision guide that brings together exam-style questions, revision tasks and practical tips to help students to review, strengthen and test their knowledge. With My Revision Notes, every student can: - Enjoy an interactive approach to revision, with clear topic summaries that consolidate knowledge and related activities that put the content into context. - Plan and manage a successful revision programme using the topic-by-topic planner. - Build, practise and enhance exam skills by progressing through revision tasks and Test Yourself activities. - Improve exam technique through exam-style questions and sample answers with commentary from an expert author and teacher. - Get exam ready with answers to the activities available online

Science for EngineeringRoutledge

Science for Engineering

Cambridge Technicals Level 3 Sport and Physical Activity

A Study Guide for the Operator Certificate of Professional Competence (CPC) in Road Freight 2018

IT Project Proposals

Basic Robotics

Manufacturing Processes for Design Professionals

What are the benefits of electrified propulsion for large aircraft? What technology advancements are required to realize these benefits? How can the aerospace industry transition from today's technologies to state-of-the-art electrified systems? Learn the answers with this multidisciplinary text, combining expertise from leading researchers in electrified aircraft propulsion. The book includes broad coverage of electrification technologies – spanning power systems and power electronics, materials science, superconductivity and cryogenics, thermal management, battery chemistry, system design, and system optimization – and a clear-cut road map identifying remaining gaps between the current state-of-the-art and future performance technologies. Providing expert guidance on areas for future research and investment and an ideal introduction to cutting-edge advances and outstanding challenges in large electric aircraft design, this is a perfect resource for graduate students, researchers, electrical and aeronautical engineers, policymakers, and management professionals interested in next-generation commercial flight technologies.

Making the right choice of GCSE subjects is one of the first major decisions you will make about your future. Some subjects will be compulsory but you will have a choice of other options. Which GCSEs? is full of information to help you make the best choice for you. It also tells you about the other qualifications that you can take at Key Stage 4 as well as outlining other pathways such as apprenticeships. Each subject area covers: - What and how you study - Careers related to your GCSE choices - Your options after your GCSEs.

Offers a modern, rigorous and comprehensive treatment of the subject using numerous well-designed examples and end-of-chapter problems.

A hands-on guide to devising, designing and analyzing simulations of biophysical processes for applications in biological and biomedical sciences. Practical examples are given throughout, representing real-world case studies of key application areas, and all data and complete codes for simulation and data analysis are provided online.

Object Lessons

Which GCSEs? 1st edition

Structural Engineer's Pocket Book, 2nd Edition

Cambridge Technicals Level 3 IT

Technical Abstract Bulletin

Supporting Student Transitions 14–19

A guide to creating high quality, persuasive proposals promoting software products or services.

A Study Guide for the Operator Certificate of Professional Competence (CPC) in Road Freight 2018 is a vital study guide that offers the thorough preparation needed to pass the tough CPC exams in the UK. It covers the examination method used by the Oxford, Cambridge and RSA (OCR) and the Chartered Institute of Logistics and Transport (CILT). This is the Level 3 standard qualification overseen by The Office of Qualifications and Examinations Regulation (OFQUAL) and the Welsh Assembly Government, which is required by any person wishing to operate vehicles over 3,500 kg, the maximum authorised mass for hire and reward, in the UK and internationally. A Study Guide for the Operator Certificate of Professional Competence (CPC) in Road Freight 2018 has been extensively revised to include all the new legislation. It covers the eight study sections that the directive requires: civil law; commercial law; social law; fiscal law; business; financial; management of the undertaking access to the market; technical standards and technical aspects of the operation road safety. It features many case studies, examples, diagrams and graphics. New to this edition: test questions after each section.

This book discusses aircraft flight performance, focusing on commercial aircraft but also considering examples of high-performance military aircraft. The framework is a multidisciplinary engineering analysis, fully supported by flight simulation, with software validation at several levels. The book covers topics such as geometrical configurations, configuration aerodynamics and determination of aerodynamic derivatives, weight engineering, propulsion systems (gas turbine engines and propellers), aircraft trim, flight envelopes, mission analysis, trajectory optimisation, aircraft noise, noise trajectories and analysis of environmental performance. A unique feature of this book is the discussion and analysis of the environmental performance of the aircraft, focusing on topics such as aircraft noise and carbon dioxide emissions.

Learning to Teach Design and Technology in the Secondary School is a core text for all those training to teach design and technology in the secondary school. It helps you develop subject knowledge, acquire a deeper understanding of the role, purpose and potential of design and technology within the secondary curriculum, and provides the practical skills needed to plan, teach and evaluate stimulating and creative lessons. This fully updated fourth edition includes information on all areas of design and technology, and on new subject requirements relating to exam qualifications. It includes three new chapters on the role of critiquing in design and technology education, transitions after secondary design and technology, and using and producing design and technology education research. Designed to be read as a course or dipped into for support and advice, it covers: Each area of design and technology: materials, textiles, electronics and food Integrating new curriculum topics, such as emerging technologies, into your teaching Developing areas of subject knowledge Health and safety Planning lessons Organising and managing the classroom Teaching wider issues through design and technology Assessment issues Your own professional development. Bringing together insights from current educational theory and the best contemporary classroom teaching and learning, this book will prove an invaluable resource for students on all training routes – as well as their mentors – who aspire to become effective, reflective design and technology teachers.

Writing to Win

With Applications to the Biological and Chemical Sciences

A Practical Guide to Theory, Measurement, and Circuits

Cambridge Technicals Level 3 Business

Essentials of Micro- and Nanofluidics

A Complete Self-Study Course for OCR and CILT Examinations

This book gives a comprehensive coverage of mechanical science for HNC/HND students taking mechanical engineering courses (including all topics likely to be covered in both years of such courses) and for first year undergraduate courses in mechanical engineering. The book covers principles of statics, mechanics of materials, principles of dynamics and mechanics of machines.

Master the core concepts and applications of foundation analysis and design with Das/Sivakugan's best-selling PRINCIPLES OF FOUNDATION ENGINEERING, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

An OCR endorsed textbook Build strong knowledge and skills with this market-leading Student Book from OCR's Publishing Partner for GCSE Business; fully updated by subject experts for the 2017 specification, it provides comprehensive content coverage, engaging case studies and assessment activities. - Develops understanding of business concepts and theories through clear explanations, illustrated by diagrams and cartoons that help all learners access the content - Cements and extends subject knowledge with case studies that encourage students to think commercially about contemporary issues and contexts - Enables students to apply their learning and strengthen their investigative, analytical and evaluation skills as they progress through a range of activities - Prepares students for assessment with a variety of practice questions and handy tips for successfully answering different question types - Supports revision by summarising the learning outcomes, key terms and facts for each unit

This book differs from other thermodynamics texts in its objective which is to provide engineers with the concepts, tools, and experience needed to solve practical real-world energy problems. The presentation integrates computer tools (e.g., EES) with thermodynamic concepts to allow engineering students and practising engineers to solve problems they would otherwise not be able to solve. The use of examples, solved and explained in detail, and supported with property diagrams that are drawn to scale, is ubiquitous in this textbook. The examples are not trivial, drill problems, but rather complex and timely real world problems that are of interest by themselves. As with the presentation, the solutions to these examples are complete and do not skip steps. Similarly the book includes numerous end of chapter problems, both typeset and online. Most of these problems are more detailed than those found in other thermodynamics textbooks. The supplements include complete solutions to all exercises, software downloads, and additional content on selected topics. These are available at the book web site www.cambridge.org/KleinandNellis.

Lessons Learned in Object-Oriented Development Projects

British Standards Edition

OCR GCSE (9-1) Business, Third Edition

Thermodynamics

Advanced Aircraft Flight Performance

Ethics for A-Level

Exam board: OCR Level: A-level Subject: Design and Technology First teaching: September 2015 First exams: Summer 2016 Inspire your students to tackle the iterative design process with creativity and confidence, using a textbook that delivers the knowledge, understanding and skills they need for the 2017 OCR Design & Technology AS and A-level specifications. Our trusted author team help you to confidently navigate both the designing and technical principles at the heart of OCR's enquiry approach and to apply them to each of the Product Design, Fashion and Textiles and Design Engineering endorsed titles. - Supports co-teaching of AS and A Level with clear signposting to the additional knowledge, understanding and skills needed at A Level - Inspires your students as they undertake the iterative design process, with a look at how to approach the Non-Exam Assessments, including creative examples of students' work for both the Product Development at AS and the Iterative Design Project at A Level - Helps students to prepare for the written exams with practice questions and guidance on the 'Principles' papers at both AS and A Level, and the 'Problem Solving' papers at A Level

This book introduces students to the basic physical principles to analyze fluid flow in micro and nano-size devices. This is the first book that unifies the thermal sciences with electrostatics and electrokinetics and colloid science; electrochemistry; and molecular biology. The author discusses key concepts and principles, such as the essentials of viscous flows, an introduction to electrochemistry, heat and mass transfer phenomena, elements of molecular and cell biology, and much more. This textbook presents state-of-the-art analytical and computational approaches to problems in all of these areas, especially electrokinetic flows, and gives examples of the use of these disciplines to design devices used for rapid molecular analysis, biochemical sensing, drug delivery, DNA analysis, the design of an artificial kidney, and other transport phenomena. This textbook includes exercise problems, modern examples of the applications of these sciences, and a solutions manual available to qualified instructors.

With no previous experience required, BASIC ROBOTICS walks readers step by step through the fundamentals of the industrial robot system. It begins with an exploration of the fascinating technological history that led to the modern robot, starting with events from Before the Common Era and ending with a glimpse of what the robots of tomorrow might become. From there the book explores safety, various parts of the robot, tooling, power transmission systems, the basics of programming, troubleshooting, maintenance, and much more. Engaging photos highlight various robotic systems and their parts, while stories of real-world events bring text concepts to life. This innovative First Edition incorporates many of the initiatives of STEM and is the culmination of lessons learned from the author's years of teaching robotics in various formats—from the traditional classroom to the industrial production floor with systems ranging from the LEGO Mindstorms NXT to the FANUC robot. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

An encyclopaedic guide to production techniques and materials for product and industrial designers, engineers, and architects. Today's product designers are presented with a myriad of choices when creating their work and preparing it for manufacture. They have to be knowledgeable about a vast repertoire of processes, ranging from what used to be known as traditional "crafts" to the latest technology, to enable their designs to be manufactured effectively and efficiently. Information on the internet about such processes is often unreliable, and search engines do not usefully organize material for designers. This fundamental new resource explores innovative production techniques and materials that are having an impact on the design industry worldwide. Organized into four easily referenced parts—Forming, Cutting, Joining, and Finishing—over seventy manufacturing processes are explained in depth with full technical descriptions; analyses of the typical applications, design opportunities, and considerations each process offers; and information on cost, speed, and environmental impact. The accompanying step-by-step case studies look at a product or component being manufactured at a leading international supplier. A directory of more than fifty materials includes a detailed technical profile, images of typical applications and finishes, and an overview of each material's design characteristics. With some 1,200 color photographs and technical illustrations, specially commissioned for this book, this is the definitive reference for product designers, 3D designers, engineers, and architects who need a convenient, highly accessible, and practical reference.

Mechanical Science, Second Edition

Learning to Teach Design and Technology in the Secondary School

Cambridge Technicals Level 3 Digital Media

Which A levels? 2019

Essentials of Mobile Handset Design

Electrified Aircraft Propulsion

An insight into the use of the finite method in geotechnical engineering. The first volume covers the theory and the second volume covers the applications of the subject. The work examines popular constitutive models, numerical techniques and case studies.

Science for Engineering offers an introductory textbook for students of engineering science and assumes no prior background in engineering. John Bird focuses upon examples rather than theory, enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple choice questions (with answers), and contains sections covering the mathematics that students will require within their engineering studies, mechanical applications, electrical applications and engineering systems. This new edition of Science for Engineering covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their exams. It has also been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications. Supported by free lecturer materials that can be found at www.routledge/cw/bird This resource includes full worked solutions of all 1300 of the further problems for lecturers/instructors use, and the full solutions and marking scheme for the fifteen revision tests. In addition, all illustrations will be available for downloading.

Now in its second edition, the Structural Engineer's Pocket Book is a comprehensive pocket reference guide for professional and student structural engineers, particularly those taking the iStructE Part 3 Exam. The combination of tables, data, facts, formulae and rules of thumb make it a valuable aid in scheme design for structural engineers in the office, in transit or on site. Concise and precise, this second edition is updated to reflect changes to the British Standards, which are used and referenced throughout, as well as the addition of a new section on sustainability.

Other subject areas include timber, masonry, steel, concrete, aluminium and glass.

Exam Board: Cambridge Level: KS4 Subject: Sport First Teaching: September 2016 First Exam: June 2017 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Sport, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Sport is matched exactly to the new specification and follows specialist pathways in n coaching, leadership and physical education, fitness instructing, personal training, and sports management, development and leisure. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

Finite Element Analysis in Geotechnical Engineering

Electrical Circuit Theory and Technology

Simulation of Living Systems

Electrical and Electronic Principles and Technology

Systems Thinking Applied to Safety

Wind-Diesel Systems

Exam Board: Cambridge Level: Key Stage 4 Subject: IT First Teaching: September 2016 First Exam: June 2017 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 IT, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 IT is matched exactly to the new specification and follows specialist pathways in IT Infrastructure Technician, Emerging Digital Technology Practitioner, Application Developer, and Data Analyst. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

A complete, yet concise, introduction to the rapidly developing field of high throughput screening of biomaterials.

Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

This Guide to OCR for Arabic Scripts is the first book of its kind, specifically devoted to this emerging field. Topics and features: contains contributions from the leading researchers in the field; with a Foreword by Professor Bente Maegaard of the University of Copenhagen; presents a detailed overview of Arabic character recognition technology, covering a range of different aspects of pre-processing and feature extraction; reviews a broad selection of varying approaches, including HMM-based methods and a recognition system based on multidimensional recurrent neural networks; examines the

evaluation of Arabic script recognition systems, discussing data collection and annotation, benchmarking strategies, and handwriting recognition competitions; describes numerous applications of Arabic script recognition technology, from historical Arabic manuscripts to online Arabic recognition.

Approaches to teaching and learning

A Companion to School Experience

Cambridge Technicals Level 3 Health and Social Care

Materiomics

Engineering a Safer World

Powering the Future of Air Transportation

Exam Board: Cambridge Level: KS4 Subject: Health & Social Care First Teaching: September 2016 First Exam: June 2017 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Health & Social Care, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Health & Social Care is matched exactly to the new specification and follows specialist pathways in health science, social care and support, and working with children and young people. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

A new approach to safety, based on systems thinking, that is more effective, less costly, and easier to use than current techniques. Engineering has experienced a technological revolution, but the basic engineering techniques applied in safety and reliability engineering, created in a simpler, analog world, have changed very little over the years. In this groundbreaking book, Nancy Leveson proposes a new approach to safety—more suited to today's complex, sociotechnical, software-intensive world—based on modern systems thinking and systems theory. Revisiting and updating ideas pioneered by 1950s aerospace engineers in their System Safety concept, and testing her new model extensively on real-world examples, Leveson has created a new approach to safety that is more effective, less expensive, and easier to use than current techniques. Arguing that traditional models of causality are inadequate, Leveson presents a new, extended model of causation (Systems-Theoretic Accident Model and Processes, or STAMP), then shows how the new model can be used to create techniques for system safety engineering, including accident analysis, hazard analysis, system design, safety in operations, and management of safety-critical systems. She applies the new techniques to real-world events including the friendly-fire loss of a U.S. Blackhawk helicopter in the first Gulf War; the Vioxx recall; the U.S. Navy SUBSAFE program; and the bacterial contamination of a public water supply in a Canadian town. Leveson's approach is relevant even beyond safety engineering, offering techniques for “reengineering” any large sociotechnical system to improve safety and manage risk.

Making the right choice of A levels is crucial. Not only will it affect your enjoyment of studying over the next two years but it also has implications for your choice of career, further training or higher education options. The tenth edition of this student-friendly guide has been revised and updated and includes study and employment options after 16 as well as at degree level. It also contains information on apprenticeships, an increasingly popular alternative to full-time higher education. Each subject entry covers: What and how you study Which A levels fit well together for competitive courses and careers Related higher education courses Career and training options after A levels and degree courses Alternative qualifications such as the International Baccalaureate.

What does pleasure have to do with morality? What role, if any, should intuition have in the formation of moral theory? If something is ‘simulated’, can it be immoral? This accessible and wide-ranging textbook explores these questions and many more. Key ideas in the fields of normative ethics, metaethics and applied ethics are explained rigorously and systematically, with a vivid writing style that enlivens the topics with energy and wit. Individual theories are discussed in detail in the first part of the book, before these positions are applied to a wide range of contemporary situations including business ethics, sexual ethics, and the acceptability of eating animals. A wealth of real-life examples, set out with depth and care, illuminate the complexities of different ethical approaches while conveying their modern-day relevance. This concise and highly engaging resource is tailored to the Ethics components of AQA Philosophy and OCR Religious Studies, with a clear and practical layout that includes end-of-chapter summaries, key terms, and common mistakes to avoid. It should also be of practical use for those teaching Philosophy as part of the International Baccalaureate. Ethics for A-Level is of particular value to students and teachers, but Fisher and Dimmock's precise and scholarly approach will appeal to anyone seeking a rigorous and lively introduction to the challenging subject of ethics. Tailored to the Ethics components of AQA Philosophy and OCR Religious Studies.

A Guide to the Technology and Its Implementation

Structural and System Reliability

Biosimulation

Planar Microwave Engineering

OCR Design and Technology for AS/A Level

Exam Board: Cambridge Level: KS4 Subject: Business First Teaching: September 2016 First Exam: June 2017 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Business, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Business is matched exactly to the new specification and follows specialist pathways in human resources, marketing, accounting and business planning. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

Written for technical managers, project leaders, and applications programmers facing decisions about design and management of large-scale commercial object-oriented software.

Supporting Student Transitions 14–19 offers transition focused approaches to planning, teaching, learning and assessment designed to meet the needs of these unique learners. Drawing upon the latest research and theory, as well as the authors' extensive experience in the field, it examines in detail transitions in teaching and learning in this complex sector. Drawing out and critically analysing the key features of both pedagogy and andragogy, the book presents the best elements of each to provide all tutors and practitioners involved in the teaching of 14–19 learners with clear strategies for supporting this group. Practical advice backed by sound theory will provide readers with a clear understanding of the requirements and needs of learners in the school, college and university. Topics explored include: The role of the teacher in supporting student transitions Understanding transition focused approaches Emotional and social factors involved Recognising difficulties and helping students prepare Supporting Student Transitions 14–19 is a practical guide also offering a unique contribution to the discourse on this important sector of education, increasingly afforded the attention it deserves. It will be an essential resource for trainee teachers, students of PCET, lecturers and teachers wanting to build upon their understanding of this group of learners.

Discover what is involved in designing the world's most popular and advanced consumer product to date - the phone in your pocket. With this essential guide you will learn how the dynamics of the market, and the pace of technology innovation, constantly create new opportunities which design teams utilize to develop new products that delight and surprise us. Explore core technology building blocks, such as chipsets and software components, and see how these components are built together through the design lifecycle to create unique handset designs. Learn key design principles to reduce design time and cost, and best practice guidelines to maximize opportunities to create a successful product. A range of real-world case studies are included to illustrate key insights. Finally, emerging trends in the handset industry are identified, and the global impact those trends could have on future devices is discussed.

Cellular Materials in Nature and Medicine

Introduction to Information Retrieval

Principles of Foundation Engineering

Application

My Revision Notes: Cambridge Technicals Level 3 IT

High-Throughput Screening of Biomaterial Properties

Modern wireless communications hardware is underpinned by RF and microwave design techniques. This insightful book contains a wealth of circuit layouts, design tips, and practical measurement techniques for building and testing practical gigahertz systems. The book covers everything you need to know to design, build, and test a high-frequency circuit. Microstrip components are discussed, including tricks for extracting good performance from cheap materials. Connectors and cables are also described, as are discrete passive components, antennas, low-noise amplifiers, oscillators, and frequency synthesizers. Practical measurement techniques are presented in detail, including the use of network analyzers, sampling oscilloscopes, spectrum analyzers, and noise figure meters. Throughout the focus is practical, and many worked examples and design projects are included. There is also a CD-ROM that contains a variety of design and analysis programs. The book is packed with indispensable information for students taking courses on RF or microwave circuits and for practising engineers.

This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

Exam Board: Cambridge Level: KS4 Subject: Digital Media First Teaching: September 2016 First Exam: June 2018 Support your teaching of the new Cambridge Technicals 2016 suite with Cambridge Technical Level 3 Digital Media, developed in partnership between OCR and Hodder Education; this textbook covers each specialist pathway and ensures your ability to deliver a flexible course that is both vocationally focused and academically thorough. Cambridge Technical Level 3 Digital Media is matched exactly to the new specification and follows specialist pathways in digital content for interactive media, and moving image and audio production. - Ensures effective teaching of each specialist pathway offered within the qualification. - Focuses learning on the skills, knowledge and understanding demanded from employers and universities. - Provides ideas and exercises for the application of practical skills and knowledge. - Developed in partnership between Hodder Education and OCR, guaranteeing quality resources which match the specification perfectly

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Guide to OCR for Arabic Scripts