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To All Members, Date: 11 September 2006

CANDIDATES APPROVED TO SIT FOR YEAR 2006 PROFESSIONAL INTERVIEW

The following candidates have been approved to sit for the Professional Interview for 2006.

In accordance with Bylaws 3.7, the undermentioned names are published as having applied for membership of the Institution, subject to passing the year 2006 Professional Interview.

If any Corporate Member of the Institution has any reason as to why any of the candidates is not a fit and proper person for election, he should communicate in writing to the Hon. Secretary. Such communication should be lodged a month from the date of publication.

Engr. Oon Chee Kheng, F.I.E.M., P.Eng.
Honorary Secretary, IEM

TRANSFER APPLICANTS

Membership No	Name	Qualifications
	CIVIL ENGINEERING	
23215	KONG SIAW MING	PT. II (IEM/BEM)(CIVIL, 2002) BSc(NAT. CHUNG-HSING, TAIWAN)(CIVIL, 94)
23172	LAI SEAK CHIN	PT. II (IEM/BEM)(CIVIL, 2002) ME (UTM)(ENV'T,96)
23057	ROSY JAMES TREVORES	BE (HONS) (USM)(CIVIL, 2001)
22100	YAU KUNG YUEN	BE (HONS)(MALAYA)(CIVIL,99)
	ELECTRICAL ENGINEERING	
17190	MALVINA MARIA ANAK CELESTINE UJANG	BE (HONS) (ESTERN AUSTRALIA)(ELECT, 95)
26252	R. SARKUNA SINGAMA/L S.RAJOO	BE (TASMANIA)(POWER-ELECT, 95)
18189	TAN PEY BIN	BSc (MISSOURI)(ELECT, 97)
24741	WONG TACK CHOW	BE (HONS)(NANYANG TECH)(ELECT, 96)
26595	YONG ENG CHIEH	BE (HONS)(ELECT, 2002)
	ELECTRONIC ENGINEERING	
24252	WONG KING SENG	PT. II(IEM/BEM)(E'TRONIC, 99) MSc (USM)(MATERIAL Sc., 93)
	MECHANICAL ENGINEERING	
10163	ABU BAKAR BIN MAHAT	BSC (HONS)(SUNDERLAND)(MECH, 81) MsC (VICTORIA UNI. OF MANCHESTER)(FACULTY TECH, 83) PhD (VICTORIA UNI. OF MANCHESTER)(87)
23095	CHIN YOON WEI	BE (HONS)(UM)(MECH, 2001)
03174	HEE LEN HI	BSC (HONS) (LONDON) (MECH, 77)
22329	MOHD NASAHIE BIN AKBAR ALI	BE (HONS)(MANCHESTER)(MECH, 99)

NEW APPLICANTS

Name	Qualifications
CIVIL ENGINEERING	
ABDUL AZIZ JULKARNAIN	BE (HONS)(UTM)(CIVIL, 2000)
ABDUL MALEK BIN TALIB	BSc (MICHIGAN)(CIVIL, 84)
CHANDRA SEGAR S/O KALIMUTHU	BE (HONS)(USM)(CIVIL, 2000)
CHUA KOK SENG	BE (NUS)(CIVIL, 89) MSc (NANYANG TECH)(INT'L CIBST, NGNT., 97)
LEE LIN JYE	BE (HONS)(UNIMAS)(CIVIL, 99)
NG AH TZUH	BE (HONS)(BIRMINGHAM)(CIVIL, 79)
MECHANICAL ENGINEERING	
AMRAN WAHIDI BIN ABDULLAH	BE (HONS)(LOUGHBOROUGH)(MECH, 94)
ONG LEONG ENG	BE (HONS)(UTM)(MECH, 89)
TAN CHIOO BIN	BSc (OKLAHOMA)(MECH, 96)
ZAINAL BIN NAGIN	BE (CANTERBURY)(MECH, 90)
ELECTICAL ENGINEERING	
LOCK KAI SANG	BSc (STRATHCLYDE) (ELECT & E'TRONIC, 75) PhD (STRATHCLYDE) (ELECT, 79)

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IEM DIARY OF EVENTS

For further enquiries on the events below, please contact IEM Secretariat at 03-7968 4001/2 or visit IEM Homepage at http://www.iem.org.my

EVENTS AND ACTIVITIES FOR OCT 2006

Oil, Gas and Mining Technical Division
30 SEPTEMBER 2006
Time: 9.30 a.m.
Talk on Project Experiences and Challenges in Sudan

Time: 9.30 a.m.
16th AGM

Electrical Engineering Technical Division
12 OCTOBER 2006
Time: 8.30 a.m. - 4.30 p.m.
One-Day Seminar on "Advanced Power Electronics"

Water Resources Technical Division
14 OCTOBER 2006
1-Day Short Course on "Water Resources 2006"

Agricultural and Food Engineering Technical Division
18 OCTOBER 2006
Time: 5.30 p.m. - 7.30 p.m.
Talk on "Modern Housing for Intensive Poultry Production"

Project Management Technical Division
31 OCTOBER 2006
Time: 5.30 p.m. - 7.30 p.m.
Lectures on Arbitration No. 4: "Costs and Interest in Arbitration Proceedings"

Geotechnical Engineering Technical Division
31 OCTOBER 2006
Time: 8.00 a.m. - 5.30p.m.
GSM-IEM Oktoberforum 2006: "Engineering Geology and Geotechnical Engineering"
Armada Hotel, Petaling Jaya

29 NOVEMBER - 2 DECEMBER 2006
24th Conference of ASEAN Federation of Engineering Organisation (CAFEO' 06) on Branding of ASEAN Professional Engineering Services and Education for Global Mobility
Sunway Lagoon Resort Hotel, Petaling Jaya
Website : http://www.aseanengineers.com/CAFEO24
Final Announcement

EVENTS AND ACTIVITIES FOR 2007

8 - 11 MAY 2007
16th Southeast Asian Geotechnical Conference (SEAGC 2007)
Venue : Sheraton Subang Hotel & Towers, Subang Jaya
E-mail : 16seagc@iem.org.my
Website : http://www.16seagc.com
(Second Bulletin: Call for Papers and Invitation to Register)

1 - 5 AUGUST 2007
3rd World Engineering Congress (WEC)
Venue : Penang

ANNUAL DINNER AND AGM OF BRANCHES YEAR 2006		
AGM	Miri Branch	31 Oct 06
AGM	Sabah Branch	4 Nov 06
AGM and Annual Dinner	Penang Branch	22 Nov 06
Annual Dinner	Sabah Branch	9 Dec 06
AGM and Annual Dinner	Kedah/ Perlis Branch	Dec 06
AGM and Annual Dinner	Sarawak Branch	Dec 06
AGM and Annual Dinner	Terengganu Branch	Dec 06
AGM and Annual Dinner	Melaka Branch	Dec 06
AGM and Annual Dinner	Eastern Branch	TBA

CONFERENCES AND ACTIVITIES FOR 2006

Chemical Engineering Technical Division
4 NOVEMBER 2006
Time : 9.00 a.m. - 11.00 a.m.
Talk on How Web-Based Software Applies to Process Relief Safety Management (PRSM)

Electrical Engineering Technical Division
21 NOVEMBER 2006
Time : 9.00 a.m. - 2.00 p.m.
Technical Visit to Telekom Operation Centre

24 NOVEMBER 2006
Time: 5.30 p.m. - 7.00 p.m.
Talk on Power Factor Correction, Its Principle and Operation

CONFERENCE & SEMINAR

MALAYSIA
14 November 2006
SEMINAR ON ENERGY EFFICIENCY AND CONSERVATION: "LESSONS LEARNT, CHALLENGES FACED AND WHAT'S NEXT?"
Venue : PICC, Putrajaya
Organiser: PTM, MEPA
Tel : 03-8943 4300
Contact : Jenny (ext:505) / Cik Noriza (ext:406) / En Hanif (ext: 520) / En Azam (ext 520)
(Invitation to Register)

22 - 23 November 2006
30 YEARS UNCITRAL ARBITRATION RULES: IMPACT OF THE RULES ON INTERNATIONAL COMMERCIAL ARBITRATION HISTORY, PRACTICES AND FUTURE
Venue : Kuala Lumpur
Organiser: UNCITRAL, RCAKL
Tel : 03-2142 0103 / 0702 / 0384
Fax: 03-2142 4513
E-mail : enquiry@rcakl.org.my / yeoyeeling@rcakl.org.my
Website : www.rcakl.org / www.rcakl.org.my
(Invitation to Register)

26 - 28 November 2006
2006 INTERNATIONAL ENERGY CONFERENCE FOR SUSTAINABLE ASIA
Venue : Sunway Pyramid Convention Centre, PJ
Organiser: ACCCIM, AAET
Tel : 03-2145 2503
Fax: 03-2145 2562
E-mail : info@iENERGYc2006.com
Website : www.iENERGYc2006.com
(Invitation to Register)

3 - 6 December 2006
INTERNATIONAL SYMPOSIUM AND EXHIBITION ON SUSTAINABLE ENERGY AND ENVIRONMENT 2006 (ISESEE 2006) - "SUSTAINABILITY: NOW AND FOREVER"
Venue : Hotel Maya, Kuala Lumpur
Organiser: UiTM / INTEM
Tel : 03-5544 2094/ 2095/ 3867
Fax: 03-5544 3870
E-mail : isesee@salam.uitm.edu.my
(Invitation to Register)

18 - 21 July 2007
THE 7TH INTERNATIONAL EXHIBITION OF TRANSMISSION AND DISTRIBUTION AND ELECTRICAL ENGINEERING (ASEAN ELENEX 2007): POWERING FUTURE TRENDS AND TODAY'S SOLUTIONS
Venue : Kuala Lumpur Convention Centre, KL
Organiser: TNB
Tel : 03-4041 0311
Fax: 03-4043 7241
Website : www.aseanelenex.com
(Invitation to Register)

BAHRAIN
20 - 22 November 2006
INTERNATIONAL EXHIBITION AND CONFERENCE FOR BUILDING CONCEPTS, MATERIALS AND TECHNOLOGIES
Venue : Bahrain International Exhibition Centre, Kingdom of Bahrain
Organiser: Bahrain Society of Engineers
Tel : (+973) 17 727100
Fax: (+973) 17 729819
E-mail : bseng@batelco.com.bh
Website : www.engineer-bh.com/ IBME2006/
(Invitation to Register)

THAILAND
30 November - 1 December 2006
INTERNATIONAL SYMPOSIUM, WATER RESOURCES AND RENEWABLE ENERGY DEVELOPMENT IN ASIA
Venue : Montien Riverside Hotel, Bangkok, Thailand
E-mail : bkk2006@hydropower-dams.com
Website : www.hydropower-dams.com
(Invitation to Register)

HONG KONG
29 - 31 MAY 2007
INTERNATIONAL CONFERENCE ON CLIMATE CHANGE
Venue : HK Convention and Exhibition Centre, Hong Kong
Tel : (852) 2895 4446
Fax : (852) 2208 4133
E-mail : conf3@hkie.org.hk
(Call for Papers)

INDIA
11 - 13 December 2006
INTERNATIONAL COAL CONGRESS ON "SUSTAINABLE DEVELOPMENT OF COAL ENERGY SECURITY"
Venue : New Delhi, India
Organiser : The Institution of Engineers, India
Phone : +91-11-3261 6820
Fax : +91-11-2337 8055
E-mail : iei_icc@hotmail.com
(Invitation to Register)

4 - 9 November 2007
THIRD STRUCTURAL ENGINEERING WORLD CONGRESS 2007 (SEWC 2007)
Venue : Bangalore, India
Phone : 080 2676 5288
Website : www.sewc2007.org
(Invitation to Register)

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2nd IET International Building Electrical Technology Professional Network (BETNET) Conference
(Jointly organised with the Electrical Engineering Technical Division, IEM and IET)

BETNET 2006

BEM APPROVED
CPD HOURS: 22**
Ref:
IEM06/HQ/232/C

Venue : Seri Pacific Hotel, Kuala Lumpur, MALAYSIA
(formerly known as Pan Pacific Kuala Lumpur)

Date : 31st October 2006 (Tutorial), 1st – 2nd November 2006 (Conference)

INTRODUCTION
The theme of the conference is '**Innovative Technology For Sustainable Development**'. Sustainability embraces a wide range of social, economic and environmental aspects that need urgent attention. Buildings and their use have a very significant impact on the environment, productivity and the quality of life. Fundamentals to sustainable buildings are safety, comfort, health and efficient use of resources. Intelligent building systems should be flexible to adapt to changes in use, and be responsive to the user needs over the entire life cycle of the building. The intention of this 2nd international conference is to highlight intelligent and sustainable solutions that can improve on electrical supply and distribution, specialist systems and equipment used in and on buildings.

KEY BENEFITS
Gain insight into cutting edge practices in areas of Building Electrical Technology through first-hand experience provided by world-class speakers from various research and academic institutions and developments as well as design experts in this field.

SCOPE OF CONFERENCE
- *Power Quality, Earthing, Regulations, EMC*
- *Intelligent Building, Building Control System (BCS)*
- *Vertical Transportation*
- *Renewable Energy, Micro-generation, BIPV*
- *Telecommunications, Networking, Control*

WHO SHOULD ATTEND?
A key event for engineers from newly qualified graduates, to system experts, academicians, researchers, consultants, building owners and maintenance personnel, local authorities and managers who desire a detailed insight into the ever evolving aspects of building electrical technology issues.

CONFERENCE PAPERS

TUTORIAL SESSIONS
- Earthing of Low Voltage Systems
- Earthing & Bonding
- Vertical Transportation
- Intelligent Building

PLENARY SESSIONS

Implementation and Enforcement of National Regulations for Electrical Installation
- BS7671 IEE Wiring Regulation
- Inspection and Testing
- Implementation of BS 7671: Inspection and Testing Requirements in the United Kingdom
- Testing & Inspection of Installations: The Australian Context
- Inspection and Testing Regimes: The role of FISUEL

Building Electrical Technology Challenges in Tall Buildings
- Conventional Versus Modern Evaluation Parameters of Elevator Traffic Performance
- Taipei 101 – Technical Challenges Bringing Taipei to the World
- Building Automation System: KLCC
- Vertical Transportation

"Renewable Energy and Micro-generation"
- Integration and Optimisation of Renewables in UK Domestic Properties
- Creating Sustainable Buildings Through BIPV - Towards Sustainable Community BIPV Systems
- Buildings Become Power Producers
- Intelligent Open Control Systems for Energy Savings & Comfort

Intelligent Buildings and Power Quality
- Review Of The Global Development Of Intelligence In Buildings
- Designing EMC into Building Electrical System
- Managing Electrical 'Ground Noise' & Establishing 'Clean Earths' for Data Centres and Mission Critical Facilities
- A Quick Review on Open Protocols for Intelligent Buildings

TECHNICAL SESSIONS - Please refer to the Website for details.

Visit the Website for Programme, Updates, Registration, Payment, 'Early Bird', & CPD Details:

http://www.betnet2006.org

'Early Bird' Benefits : by 10 Oct 2006

ENGR. YUSOUF BIN AHMAD, CHAIRMAN, ELECTRICAL ENGINEERING DIVISION, INSTITUTION OF ENGINEERS MALAYSIA

ENGINEERING - Industrial Training

MONASH University Malaysia

Monash University is seeking industrial training for our penultimate year Malaysian students studying Engineering at Monash University Malaysia available from late November 2006 until mid February 2007.

For further information on the services (on campus career presentations, graduate recruitment, industrial training, part-time vacancies, career fairs, on-line job vacancy advertising), please do contact Ms. Charmaine Paramanathan at 603-5636 0600 (ext 3729) or e-mail to charmaine.paramanathan@monash.edu.my.

NOTICE

Vacancy for the Post of Civil/Structural Engineer

W.Lee Consulting Engineers - 99B, Jalan SS15/4, 47500 Subang Jaya, Selangor D. E.

Job title	:	Civil / Structural Engineer
Discipline	:	Civil
Area	:	Civil & Structural Design and Supervision. Concrete low & highrise structure with some civil works.
Years of Experience	:	1 - 3 years
Qualifications	:	Recognised degree in Civil Engineering with min 2nd Class Upper Honors.
Telephone	:	03-5635 1206
Fax	:	03-5633 4590
E-mail	:	wla_sb@tm.net.my

FEDERATION OF ENGINEERING INSTITUTIONS OF ISLAMIC COUNTRIES

Call for Papers
The Federation of Engineering Institutions of Islamic Countries (FEIIC)

To all Members and Readers, the Federation of Engineering Institutions of Islamic Countries (FEIIC) is planning to organise the 2nd International Engineering Convention 2007 (IntEC 2007) in Riyadh, Saudi Arabia on 12 - 16 March 2007.

Interested authors are invited to submit their paper according to the FEIIC journal format. Guidelines for the format can be obtained via website at *http://www.eng.upm.edu.my/~ijet*. Papers submitted must be original and have not been published elsewhere. Paper will be vetted by at least two referees. Kindly forward your papers to the Organising Chairman of IntEC 2007 or e-mail to *mizi@iem.org.my* for our further action.

Important Deadlines

Submission of Full Papers	6 November 2006
Notification of Acceptance	11 December 2006

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ANNOUNCEMENT

CALL FOR NOMINATION

IEM Outstanding Engineering Achievement Award 2007

The IEM Outstanding Engineering Achievement Award is created to confer recognition to outstanding engineering achievements within Malaysia. The award will be given to an organisation or body responsible for an outstanding engineering project in the country.

The basis for the award shall be an engineering achievement that demonstrates outstanding engineering skills which has made a significant contribution to the engineering progress and the quality of life in Malaysia. In making the selection, the following criteria will be given special consideration.

Contribution to the well-being of people and communities; resource-fulness in planning and in the solution of design problems; pioneering in use of materials and methods; innovations in planning, design and construction; unusual aspects and aesthetic values.

Engineering achievements which include, inter-alia, the following can be submitted for consideration:

- Bridges, Tunnels, Waterways Structures, Roads.
- Telecommunications of national/ international character, Power Transmission and Transportation.
- Dams and Power Stations.
- Ports and Harbours.
- Building and Structures.
- Airports.
- Water Supply, Waste Disposal Projects.
- Military projects, such as bases, launching units, harbour facilities.
- Drainage, Irrigation and Flood Control Projects.
- Local design and manufacture of high technology products.
- Energy, Heat, Mass Transfer.
- Outstanding work in engineering research and development.
- Chemical processing of indigenous raw resources such as rubber, palm oil and various other local plants.
- Innovative use of local engineering materials.
- Outstanding contribution in engineering education.
- Original discovery of useful engineering theory.

Nominations are invited from all members of the Institution. Each nomination submitted should contain a brief summary/ write-up of the project in approximately 1,000 to 2,000 words together with full relevant reports on the project and three copies of supporting documentation including photographs. A project or component part thereof which has received an earlier award, either from IEM or other institutions does not qualify for nomination.

The closing date for receipt of nominations for the 2007 Award is 31 October 2006. Please submit nomination to:

Hon. Secretary, The Institution of Engineers, Malaysia,
Bangunan Ingenieur, Lots 60/62,
Jalan 52/4, P.O. BOX 223,
(Jalan Sultan), 46720 Petaling Jaya.

REPORT

News from Branch Terengganu

CAREER TALK AND BOOK DONATION BY IEM TERENGGANU BRANCH [KERTEH CHAPTER] AT SEKOLAH MENENGAH TEKNIK KEMAMAN

By: Engr. Ahmad Nazari bin Ashari, *F.I.E.M., P.Eng.*

Sekolah Menengah Teknik Kemaman, 26 July, 2006

The IEM Terengganu Branch [Kerteh Chapter] in collaboration with IEM Terengganu Graduate & Student section conducted a "Career Talk" session at Sekolah Menengah Teknik Kemaman. This session was attended by well over 200 Form Five students.

Presentations on 'Route to become an engineer' presented by young engineers from the G&S Section was followed by 4 separate presentations on "Experience as an Engineer..." in Chemical, Civil, Mechanical and Electrical disciplines. These are conducted by senior members of IEM.

The Career Talk was followed by donation of books on Engineering. A total of about 70 books on various engineering subjects, carefully selected after rigorous selection was made with the school teachers, was purchased by IEM Terengganu Kerteh Chapter and donated to the school on that day. Funds for the purchase came from part of the proceeds raised in a "Charity Golf Tournament" held by IEM Terengganu at Kerteh last year. ■

From left front row, Engr. Yong H. L., coordinator of the Career Talk and Book Donation event, Engr. Tiong H. C., Chairman of IEM Terengganu Kerteh Chapter, Engr. Mohamad Zulkefly Sulaiman, and Tn. Hj. Nadzri, the Deputy Principal of SMT Kemaman.

REPORT

Highway amd Transportation Technical Division

Forum on "Maintenance Management Systems: How Effective Are They?"

By : Engr. Dr Safry Kamal bin Hj. Ahmad, *M.I.E.M., P.Eng.*

The forum was held on 1 July 2006 at IEM Conference Hall

The session, which was attended by 150 participants, first introduced the various asset management systems that have been established in the Public Works Department. These include: the pavement management systems, bridge management and slope management. To monitor sections of road which are prone to flooding, the E-Banjir was set to monitor flood levels at these sections of the road network.

The SMS/DAPAT was set up where complaints received are managed and attended to. All the systems established were found to be effective, well-documented and records were traceable. Similar systems were reported to have been developed at PLUS Expressways Berhad, to maintain the Expressway tolls, mainly for the pavement and slope. Issues from the audience that were deliberated during the forum included:-

i) Publicity and Media coverage during construction and maintenance of roads.
ii) The issue of enforcement and regulation, especially from overloading vehicles.
iii) The use of cement/ concrete as part alternative to flexible pavement, even though this has a high capital cost but low overall maintenance costs.
iv) Planning of roads must take the issue of economics and traffic demands into consideration. ■

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HISTORIC CONCRETE BACKGROUND TO APPRAISAL
JAMES SUTHERLAND / DWAN HUMM / MIKE CHRIMES / THOMAS TELFORD
620.136 HIS / 004685

The UK has many concrete structures of varying ages that frequently need to be appraised, repaired or altered. Over time, relevant drawings and records have ceased to exist and concrete, probably the most opague of all structural materials could be hard to judge - whether it's mass concrete, reinforced or prestressed concrete.

BUSINESS LETTERS FOR BUSY PEOPLE : TIMESAVING, READY-TO-USE LETTERS FOR ANY OCCASION – 4TH EDITION
JOHN A. CAREY / CAREER PRESS
658.4 CAR / 004782
627.2.21 THO / 004694

A best-seller since it was introduced in 1991, Business Letters for Busy People contains concise, easy-to-use learning resources that get results. Packed with the most concrete information, useful techniques, and practical tips available, it also includes a CD-ROM containing templates for all of the sample letters included within the text. This guide will cut the time you spend on letter writing in half.

REINFORCED SOIL ENGINEERING : ADVANCES IN RESEARCH AND PRACTICE
HOE I. LING / DOV LESHCHINSKY / FUMIO TATSUOKA / MARCEL DEKKER
624.151 REI / 004766

Focusing on geotechnical earthquake issues and case histories from countries including the United States, Canada, Japan, Taiwan, Turkey and several European nations. Reinforced Soil Engineering examines the use of geosynthetic materials for separation; reinforcement; filtration; drainage; and containment; relevant design parameters and specifications; various material and polymer characteristics; and timedependent modeling strategies; the use of MSEW software following Demo 82 guideline; the impact of the sliding block concept in geotechnical earthquake engineering and simulation methods for the investigation of geosynthetic behavior and response.

LAW AND PRACTICE OF CONSTRUCTION CONTRACTS – 3RD EDITION
CHOW KOK FONG / THOMSON
34.03 CHO / 004776

This book has already been established as a framework for the analysis and evaluation of the substantive issues relating to construction claims. It's approach is clearly distinguishable from other standard works on the subject. It integrates the legal principles of the subject with industry practice and operating conditions typically encountered in construction projects. While the audience of this work remains essentially the parties who are directly involved in the development, design and construction processes, it has been referred extensively by contract advisers and construction lawyers. For this reason, the application of a number of the important principles and processes are demonstrated through simulated computations and flow charts.

MODEL COMMERCIAL CONTRACT AND LETTERS
CENTRAL CHAMBERS LAW CORPORATION
347.4 CCL / 004778

This book aims at providing practical assistance to the non-experts in matters relating to drafting contracts and letters. It is meant to serve as a reference on a wide range of topics that arise in everyday tasks within a business setting. Topics include :

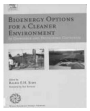
- Rental of property
- Management of Debt and Debt Recovery
- Intellectual assets
- Information technology
- Company formation and administration
- Formation of businesses and partnerships
- Distributionship and agencies
- Joint ventures
- Matters on
- Banking and finance
- Mattes
- Sale of goods
- Defamation
- Winding Up and insolvency

A GUIDE TO MANAGEMENT DEVELOPMENT TECHNIQUES : WHAT TO USE WHEN
KENNETH FEE / KOGAN PAGE
658.40 FEE / 004775

Effective management development is a key component in every successful organisation. This detailed guide to the various techniques used in management development will help readers to understand, and make best use of, the wide range of techniques available. Offering both theory and practical advice, the book looks in detail at each technique and provides :

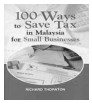
- a definition and detailed description of the technique
- analysis and evaluation to assess its strengths and weaknesses
- assessment of costs and the suitability of a particular technique for learning styles
- case studies detailing either a specific application of the technique or how it has been utilised in a leading organisation

BIOENERGY OPTIONS FOR A CLEANER ENVIRONMENT : IN DEVELOPED AND DEVELOPING COUNTRIES
RALPH E. H SIMS / WORLD RENEWABLE ENERGY NETWORK
662.8 BIO / 004671



Bioenergy Options for a Cleaner Environment provides a useful range of perspectives to all those working with or interest in the bioenergy sector in both developed and developing countries, including academics and researchers, as well as planners, policy makers, developers, aid agencies and those involved in forestry and agriculture

100 WAYS TO SAVE TAX IN MALAYSIA FOR SMALL BUSINESSES
RICHARD THORNTON / THOMSON
351.713 THO / 004746



Designed specially to cater for small businesses, whether sole proprietorships, artnerships or small companies. 100 ways to save tax in Malaysia for Small Businesses has been prepared to give ideas and guidance on tax mitigation for businessmen and the people who are responsible for looking after their affairs. It cannot be emphasised too much that the self-assessment tax regime, ewlyintroduced for individuals, puts considerable emphasis on the responsibility of individual taxpayers and those responsible for business tax returns to do the job right and do it on time if they are to be saved from unnecessary penalties and additional tax liabilities as well as the stress of challenges by way of tax audit.

MECHANICAL TESTING OF ADVANCED FIBRE COMPOSITES
JM HODGKINSON / CRC PRESS
620.193 WIN / REFERENCE SECTION

This book discusses the following topics: general principles and perspectives; specimen preparation; tension; compression; shear' flexure; through-thickness testing; interlaminar fracture toughness; impact and damage tolerance; fatigue; environmental testing of organic matrix composites; scaling effects in laminated composites; statistical modeling and testing data variability; and development and use of standard test methods.

THE ELECTRONIC DESIGN AUTOMATION HANDBOOK
DIRK JANSEN / KLUWER ACADEMIC PUBLISHERS
621.385 JAN / 004715 / REFERENCE SECTION

Covered topics are :

- overview on electronic design automation
- symbolic design
- high level language design
- modeling and verification
- implementation
- tutorial on EDA
- reference

HVAC DESIGN MANUAL FOR HOSPITALS AND CLINICS – ASHRAE SPECIAL PROJECT 91
AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
62-52 ASH / REFERENCE SECTION

The purpose of this manual is to provide a comprehensive source for the design, installation and commissioning of HVAC systems for hospitals and outpatient clinic. The manual covers environmental comfort, infection control, energy conservation, life safety, and operation and maintenance, providing design strategies known to meet applicable standards and guidelines. It also contains information on disaster planning and provides the "best practice" recommendations on temperature/humidity/air exchange and pressure requirements for various types of rooms found in hospitals, A chapter on terminology begins to define several media terms for the design engineer.

EXPERIMENTAL CHARACTERISATION OF ADVANCED COMPOSITE MATERIALS – 3RD EDITION
DONALD F. ADAMS, LEIF A. CARLSSON, R. BYRON PIPE / CRC PRESS
REFERENCE SECTION

This book provides a concise, authoritative treatment of the best available methods for determining the mechanical properties, thermal expansion coefficients, and fracture and strength data for composite materials. With emphasis firmly on practical matters, it presents processing techniques, specimen preparation, analyses of test methods, test procedures, and data reduction schemes. Five chapters that cover specific aspects of laminate testing are followed by discussions that extend these principles to laminate responses. The treatment concludes by exploring composite durability issues with discussions on defects and fracture mechanics.

100 WAYS TO SAVE TAX IN MALAYSIA FOR INDIVIDUALS
RICHARD THORNTON / THOMSON SWEET / MAXWELL ASIA
351.713 THO / 004747

This book draws on the pedigree of successful editions of the highly popular tax guide 100 Ways to Save Tax in Malaysia. Now specially tailored for you - the individual taxpayer. If you are involved in business, you should also look out for 100 Ways to Save Tax in Malaysia for Small Businesses which will be coming out soon

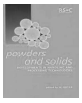
THE MALAYSIAN PWD FORM OF CONSTRUCTION CONTRACT
LIM CHONG FONG / THOMSON SWEET / MAXWELL ASIA
347.7 LIM / 004777

This book seeks to explain the background and various provisions of the PWD 203A and 203 forms of contract that are widely used for public sector construction and increasingly for private sector civil engineering construction as well, It provides a comprehensives and practical commentary, giving a clause-by-clause analysis of the contracts. The commentary concentrates on the interpretation of all clauses, from both the legal and operational aspects. It also identifies pitfalls to be avoided.

CLEAN ENERGY – RSC CLEAN TECHNOLOGY MONOGRAPHS
RM DELL, DAJRAND
620.98 DEL (004701) / REFERENCE SECTION

The book emphasises the importance of developing a strategy for the world's future energy supply. The strategy must take into account; the finite supplies of natural gas and petroleum; the increases consumption of fuel by developing economies; the concern over greenhouse gas emissions; the pollution caused by burning coal (especially coal with a high sulphur content) the difficulties and costs of extracting unconventional fossil fuels; and the technical, sociological and cost barriers that restrict the use of renewable forms of energy.

POWERS AND SOLIDS : DEVELOPMENTS IN HANDING AND PROCESSING TECHNOLOGIES
W HOYLE / RSC
REFERENCE SECTION



The chemical industry processes a high proportion of its products in powder form, thus making the efficient, effective and safe handling and processing of powders of prime importance. Powders and Solids; Developments in Handling and Processing Technologies brings the reader right up-to-date with both newly-introduced commercial practices and results of recent fundamental research on the behaviour of model powders. Case studies are also included.

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BOOKS DONATED TO THE IEM LIBRARY:

(A) GEOTECHNICAL ENGINEERING TECHNICAL DIVISION

GEOTECHNICAL MODELLING – APPLIED GEOTECHNICS VOLUME 1
DAVID MUIR WOOD / SPONS PRESS
624.151 MUI / 004768

Modelling forms an implicit part of all engineering design but many engineers engage in modeling without consciously considering the nature, validity and consequences of the supporting assumptions. This book begins by presenting some of the models which form a part of the typical undergraduate geotechnical curriculum in order to illustrate the ubiquity of modeling in familiar areas of geotechnical engineering. These is then a description of some of the aspects of soil behaviour which contribute to the challenge of geotechnical modeling.

APPLIED ANALYSES IN GEOTECHNICS
FETHI AZIZI / TAYLOR / FRANCIS
624.151 FET / 004769

The book includes unique topics and methods of analysis that are usually only accessible in more specilised literature including :

- a thorough treatment of the elastoplastic modeling of soil behaviour
- the use of limit analysis in conjunti9on with the bearing capacity of shallow foundation
- a clear presentation of piling techniques and methods of design including in situ testing, static method, and settlement predictions
- a detailed analysis of different theories on lateral pressure exerted on retaining walls including Boussinesq theory
- a separate chapter on the design of sheet-piles and diaphragm walls
- a special section on the analysis of the expansion of cylindrical cavities
- a unique chapter on centrifuge modeling in geotechnics
- a clear and concise presentation of finite element modeling related to geotechnical problems

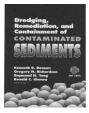
ANALYSIS AND DESIGN OF SHALLOW AND DEEP FOUNDATIONS
LYMON C. REESE, WILLIAM M ISENHOWER, SHIN-TOWER WANG / JOHN WILEY & SONS
624.151 RES / 004767

- coverage on computer-assisted analytical methods, balanced with standard methods such as site visits and the role of engineering geology
- methods for computing the capacity and settlement of both shallow and deep foundations
- Field-testing methods and sample case studies, including projects where foundations have failed, supported with analyses of the failure
- CD-ROM containing demonstration versions of analytical geotechnical software form Ensoft, Inc, tailored for use by students in the classroom

RECLAMATION AND GROUND IMPROVEMENT
MW BO, V CHOA / THOMSON
627.533 WIN / 004765

Key Features:

- describes procedures of reclamation methods
- discusses site investigation procedures required for land reclamation and ground improvement projects
- provides methods of ground improvement for both soft foundation soils and granular fill
- presents methods for characterizing soft clay and granular material usually encountered in land reclamation works at foreshore areas
- outlines design procedures for land reclamation, groundimprovement and shore protection structures
- present contract management procedures and examples of technical specifications



DREDGING, REMEDIATION, AND CONTAINMENT OF CONTAMINATED SEDIMENTS
KENNETH R. DEMARS , GREGORY N. RICHARDSON, RAYMOND N. YONG / RONALD C. CHANEY
628.1 DRE / 004784

A SHORT COURSE IN SOIL-STRUCTURE ENGINEERING OF DEEP FOUNDATIONS, EXCAVATIONS AND TUNNELS
CHARLES W.W NG & NOEL SIMONS & BRUCE MENZIE / THOMAS TELFORD
624.15 MGC / 004793

This book is divided into three parts - effectively three short courses - focusing on the following three major geotechnical challenges of static soil-structure interaction problems :

- Part 1 : Deep foundations - piles, barrettes
- Part 2 : Multi-propped deep excavation
- Part 3 : Bored and open-face tunnels beneath cities

TUNNEL LINING DESIGN GUIDE
THE BRITISH TUNNELLING SOCIETY / INSTITUTION OF CIVIL ENGINEERS
624.103 TUN / 004796

Tunnel lining design guide is primarily intended to provide those determining specification of tunnel linings with a guide to the recommended rules and practices to apply in their design. In addition, it provides practitioners who procure, operate or maintain tunnels along with those seeking to acquire data for use in their design, with details of the factors that influence correct design, such as end use, construction practice and environment influences.

- the design processes various stages
- final usage requirements
- choosing types of lining
- lining systems and construction methods
- stability problems in tunnels
- poor appreciation of mechanical limitations of support systems

CIVIL EXCAVATIONS AND TUNNELLING
R. TATIYA / THOMAS TELFORD
624.152 TAT / 004788

- includes a case study of the criteria used to select equipment when considering factors related to environment, safety, ergonomics and the economy
- details comprehensive treatment of modern partial-face borers, full-face tunnel borers, multi-tool miner (MTM) and impact hammers
- outlines tunnelling methods, including non-conventional methods such as the new Austrian tunnelling method(NATM); Lee's tunnelling method (LTM), pre-vault method; mechanical pre-cutting tunnelling method (MPTM). Also included are microtunnelling and the use of trenchless technology for laying pipelines for water and gas, cables for power and telecoms and sewer lines.
- Highlights efforts to prevent accidents and minimize damage to the environment, health/ hazards, safety and environment (HSE) issue.

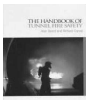
ICP DESIGN METHODS FOR DRIVENPILES IN SANDS AND CLAYS
RICHARD JARDINE & FIONA CHOW & ROBERT OVERY & JAMIE STANDING / THOMAS TELFORD
624.154 ICP / 004798

- clear procedures that can be applied by geotechnical engineers, supported by worked examples for sands and clays
- guidance on application to a wider range of pile types, geotechnical profiles and loading conditions pile tests
- reference to recent research and practical experience, discussing the methods theoretical and practical advantages

CLOSED-FACE TUNNELLING MACHINES ANAD GROUND STABILITY : A GUIDELINE FOR BEST PRACTICE
THE BRITISH TUNNELLING SPCIETY / INSTITUTION OF CIVIL ENGINEERS
624.193 CLO / 004794

This report is essential for all professionals involved in soft ground and closed-face tunnelling machine technology, and to those managing development of major tunnelling projects in an urban environment.

THE HANDBOOK OF TUNNEL FIRE SAFETY
ALAN BEARD & RICHARD CARVEL / THOMAS TELFORD
363.379 / REFERENCE SECTION



This book spans the spectrum of current knowledge available in the field of tunnel fire safety. It covers a diverse range of topics including :

- fire safety management and human behaviour
- fire prevention and protection, including tunnel ventilation
- tunnel fire dynamics and fire investigation
- emergency services and emergency procedures
- tunnel fire safety and the law

ADVANCES IN GEOTECHNICAL ENGINEERING – THE SKEMPTON CONFERENCE – VOLUME 1, 2 & 3
R.J JARDINE / DM POTTS / KG HIGGINS
624.193 / REFERENCE SECTION

This three volume present the proceeding of the Skempton Conference, March 2004, organised by the British Geotechnical Association (BGA), the Geological Society of London and the Institution of Civil Engineers (ICE).

Contents :

- soil behaviour, characterisation and modeling
- foundations
- slopes and embankments
- ground performance
- the influence of geology on civil engineering

BUILDING RESPONSE TO TUNNEMMLING : CASE STUDIES FORM CONSTRUCTION OF THE JUBILEE LINE EXTENSION, LONDON – VOLUME 1 : PROJECTS AND METHODS
624.193 / REFERENCE SECTION

Describes the construction and protective works of the JLEP, the methods of settlement prediction and building damage assessment used on the project, and the objectives of the research. It provides accounts of the geology and historical development of the case study buildings (between Green Park and Canada Water stations of the JLE route) and full transcriptions of before-the-event and independent best-practice predictions of surface and at-depth ground movements for two Greenfield sites and four buildings. These predictions were made specially for the research project.

VOLUME 2: CASE STUDIES

Volume 2 presents, in their geographical sequence, 27 case studies, from Green Park in the west to London Bridge, and then eastward to Canada Water Station. These case studies include two instrumented Greenfield sites and several examples of prestigious buildings in London's West End that were protected by compensations flouting. The sites studied include Big Ben clock tower, the Treasury building, the Ritz Hotel and the RAC building, plus many commercial and residential properties. The case studies present descriptions of the buildings the works that affected them and measurements made to record their response.

(B) PROJECT MANAGEMENT TECHNICAL DIVISION

THE ENGINEERING AND CONSTRUCTION CONTRACT : AN NEC DOCUMENT – GUIDANCE NOTES
THE INSTITUTION OF CIVIL ENGINEERS / THOMAS TELFORD
347.4 CHO / 004780

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CONDITION OF CONTRACT FOR CONSTRUCTION FOR BUILDING AND ENGINEERING WORKS DESIGNED BY THE EMPLOYER : GENERAL CONDITIONS, GUIDANCE FOR THE PREPARATION OF PARTICULAR CONDITIONS FORMS OF LATTER OF TENDER, CONTACT AGREEMENT AND DISPUTE ADJUDICATION AGREEMENT
FIDIC
347.1 FID / 004781

(C) ELECTRICAL ENGINEERING TECHNICAL DIVISION

ELECTRICAL INSTALLATION WORK – 5TH EDITION
BRIAN SCADDAN / NEWNES
621.319 SCA / 004774

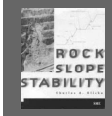
This book covers both theory and practice for the trainee who wants to understand no only how, but why electrical installations are designed, installed and tested in particular ways. To encourages independent learning with self-assessment questions provided throughout.

MODERN WIRING PRACTICE DESIGN AND INSTALLATION – REVISED EDITION
WE STEWARD & TA STUBBS / NEWNES
621.319 STE / 004773

This compact and practical guide addresses wiring systems design and electrical installation together on one volume, creating a comprehensive overview of the whole process for contractors and architects, as well as electricians and other installation engineers. Best practice is incorporated throughout, combining theory and practice with clear and accessible explanation, all within the framework of the wiring regulations.

Introducing the fundamentals of design and installation with a minimum of mathematics, this book is also relevant reading for students of electrical installation courses, such as the 2330 Certificate in Electrotechnical Technology, and NVQs from C&G as well as trainees in industry undertaking Apprenticeships and Advanced Apprenticeships.

(D) OIL, GAS AND MINING TECHNICAL DIVISION

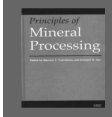


ROCK SLOPE STABILITY
CHARLES A. KLICHE / SME
624.131 KLI / 004759

MINE HEALTH AND SAFETY MANAGEMENT
MICHAEL KARMIS / SOCIETY FOR MINING, METALLURGY AND EXPLORATION
622(021) KAR / REFERENCE SECTION

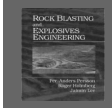
Mine Health and Safety Management presents aspects of management, leadership, regulation, and compliance associated with mining health and safety. This book focuses on instilling a safety culture and fostering the ability to recognize and manage health and safety responsibilities and requirements. It details effective health and safety management systems and concentrates on hazard anticipation, identification, evaluation, and control. This book is intended for practicing engineers and supervisors, health and safety professionals and the research community, as well as undergraduate and graduate students in the minerals disciplines.

PRINCIPLES OF MINERAL PROCESSING
MAURICE C FUERSTENAU, KENNETH N HAN / SOCIETY FOR MINING, METALLURGY AND EXPLORATION
622.7 FUE / REFERENCE SECTION



Destined to become an industry standard, this comprehensive reference examines all aspects of mineral processing, from the handling of raw materials to separation strategies to the remediation of waste products. The book incorporates state-of-the-art developments in the fields of engineering, chemistry, computer science and environmental science and explains how these disciplines contribute to the ultimate goal of producing minerals and metals economically form ores. With contributions form more than 20 recognised authorities, this thorough reference for seasons industry professionals interested in improving operational efficiencies. It presents the principles that govern various unit operations in mineral processing along with examples that illustrate how these principles apply to real-world situations.

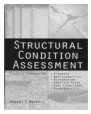
ROCK BLASTING AND EXPLOSIVES ENGINEERING
PER-ANDERS PERSSON, ROGER HOLMBERG, JAIMIN LEE / CRC PRESS
624.152.20 PER / REFERENCE SECTION



This text is intended to serve as a working handbook for mining, quarrying and building construction engineers, as a textbook for selfstudy, and as a working text for university level classes in rock blasting and explosives engineering for students in mining, petrochemical, mechanical, and civil engineering. This book intended to provided a firm foundation of understanding of the physical and chemical processes by which explosives release their energy and do work on the surrounding material. It also aims to set out the basic principles of the engineering methods for calculating the correct charge size and charge placement for a multitude of practical applications. It give examples of how these methods can be used in production blasting, tunneling, and controlled blasting in a city. While the complicated structure of cracks and joints in real rock mass constitutes a variable background against which to use such methods, recent developments have made it possible to select explosives that best fit different types of rock mass.

(E) CIVIL AND STRUCTURAL ENGINEERING TECHNICAL DIVISION

STRUCTURAL CONDITION ASSESSMENT
ROBERT T. RATAY / JOHN WILEY
624.171 / REFERENCE SECTION



In a conveniently organized format, this expert resource is intended to instruct the novice and guide the experience engineer in performing the condition assessment of structures :

- how to recognise the common types, causes and consequences of defects, degradation, and damage that are found in various structural materials
- how to organise he assessment project and conduct the inspection
- how to effectively conduct field examinations and use laboratory tests andanalytical evaluations
- how to report findings and recommendations
- the business practices and legal aspects you need to know to plan, conduct, and evaluate an assessment for both the consultant and the client

BRIDGE ENGINEERING HANDBOOK
WAI-FAH CHEN (AND) LAIN DUAN / CRC PRESS
624.02 / REFERENCE SECTION

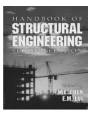
this book presents : -

- fundamentals : provides the basic concepts and theory of bridge engineering and design
- Superstructure Design : discusses all types of bridges
- Substructure Design : addresses columns, piers, abutments and foundations
- Seismic Design : presents the latest in seismic bridge design and retrofit technology and practice
- Construction and Maintenance : focuses on practical issues of bridge construction, strengthening and rehabilitation
- Special Topics : offers new and important information and unique solutions, as well as recent developments in bridge engineering
- Worldwide practice : summarises bridge engineering practices and history around the world

HANDBOOK OF STRUCTURAL ENGINEERING – SECOND EDITION
W.F CHEN (AND) E.M. LUI / CRC PRESS
621.021 REFERENCE SECTION

- Suggestions on how to measure both hard and soft skills
- Guidance on measuring required and mandated programs
- Ideas for measuring elective training and employee relations programs
- Procedures for comparing different delivery systems
- Information on how to sample people and document
- Tips for both colleting data and information on analysing data using descriptive and inferential statistics

PERFORMANCE – BASED EVALUATION :
TOOLS AND TECHNIQUES TO MEASURE THE IMPACT OF TRAINING
JUDITH HALE / JOSSEY-BASS / PREIFFER
658.3 HAL / 004804



- fundamental theories of structural dynamics
- advanced analysis
- wind and earthquake resistant design
- design of prestressed concrete, masonary, timber, and glass structures
- properties, behavior, and use of high-performance steel, concrete, and fibre-reinforced polymers
- semirigid frame structures
- structural bracing
- structural design for fire safety

PERFORAMANCE BASED CERTIFICATION : HOW TO DESIGN A VALID, DEFENSIBLE, COST-EFFECTIVE PROGRAM
JUDITH HALE / JOSSEY-BASS / PREIFFER
658.3 HAL / 004805

- Instill confidence that employees, members, or suppliers are qualified to meet the needs of your customers
- Ensure that your workforce is trained and competent
- Make your hiring process more cost-effective and legally defensible
- Recognise competence and consistency of your employees over time

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9.00 a.m. to 4.00 p.m. (Every Saturday)