

# ENGINEERING CATALOGUE 19/20



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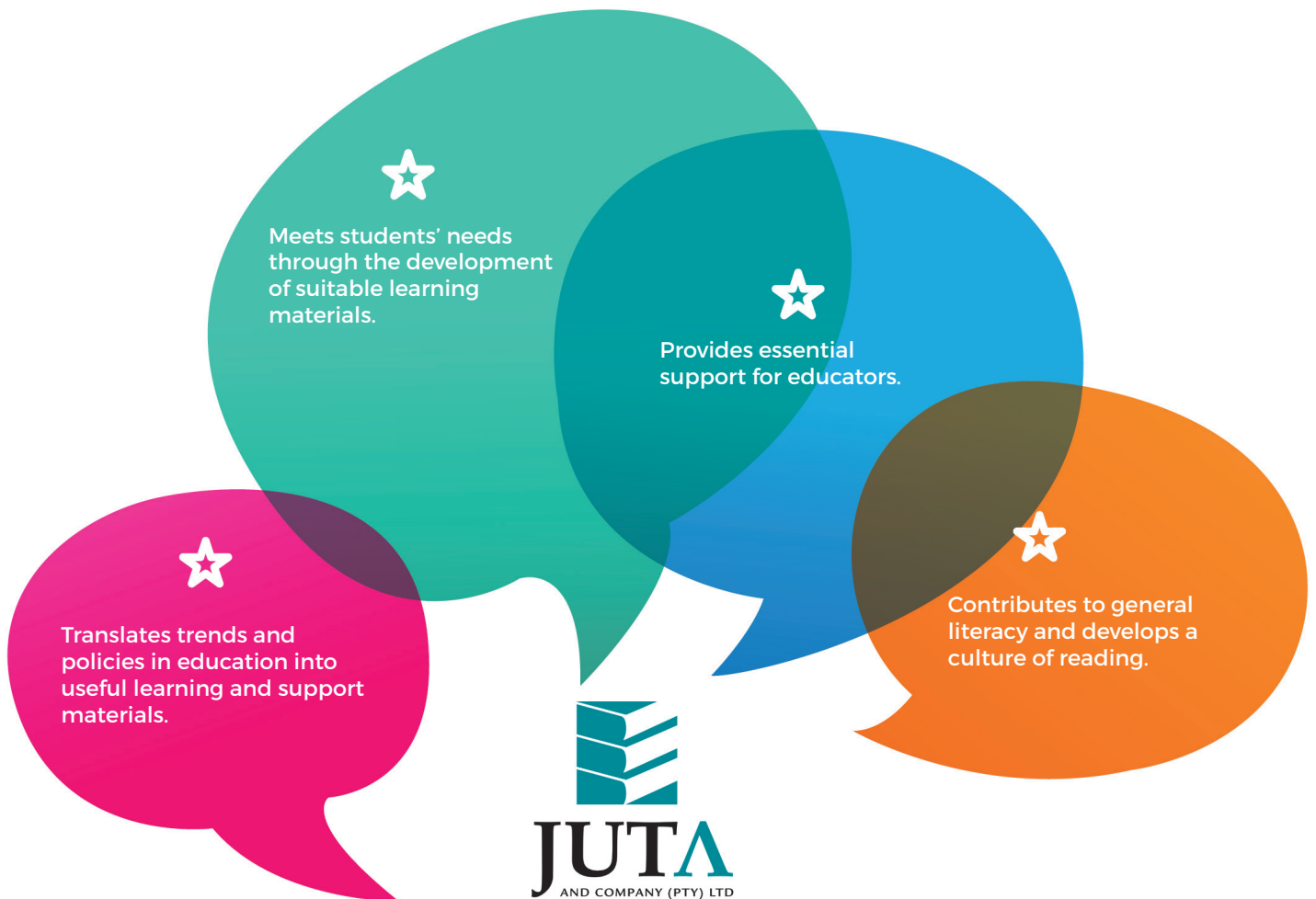
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# CONTENTS

2	<b>INTRODUCTION</b>
5	<b>ENGINEERING TITLES</b>
16	<b>CONTACT INFORMATION</b>
19	<b>AUTHOR INDEX</b>
19	<b>TITLE INDEX</b>
20	<b>PRICE LIST</b>
22	<b>DESK/INSPECTION COPY REQUEST FORM</b>



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## ICON KEY



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- 4 Click **Register**.
- 5 You will **receive a confirmation email verifying** that your request has been received by a Juta staff member.  
NOTE: The Juta Sales Consultant for your institution will verify your request. This may take up to 2 working days. Please be patient.
- 6 Once approved you will **receive an email with an account activation link**. Click on the link in the email to **activate your account** before logging in to **Juta Passmasters**.



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- 2 Click **Register** to set up an account.
- 3 **Complete** all the details on the form and make sure to **click the lecturer button**.
- 4 Make sure to **select Yes** for *Do you have a lecturer registration code?* and **enter the code**.
- 5 Click **Register**.  
NOTE: It could take up to 5 minutes as we set up your unique lecturer classroom in the background. Please be patient while this happens.
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# BASIC CIRCUIT ANALYSIS FOR ELECTRICAL ENGINEERING

LD CONSTANTINOVICI & M GOVINDSAMY

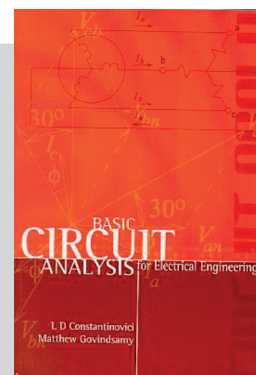
*Basic Circuit Analysis for Electrical Engineering* introduces fundamental concepts of engineering to students. Technical concepts are explained in plain language and the mathematics is clear and understandable, making it easy to follow the text. This book is essential reading for anyone looking to gain a firm grounding in electrical engineering.

## KEY FEATURES

- Builds on an entry-level basic knowledge of electrical engineering
- Graphics are used to explain difficult concepts
- Promotes learning through stimulating activities
- Suitable for individual or group study
- Teaches principles by explicit examples
- Self-evaluation exercises assist the student throughout
- Outcomes and summaries support learner-centred learning
- Suitable for distance education.

## SUITABLE FOR

Suitable for undergraduate engineering students at universities and universities of technology, including distance education institutions.



978 0 70215 215 3

**ZAR R416.00**



1999



254 PAGES

# CONCISE HIGHER ELECTRICAL ENGINEERING

E CHIKUNI, OI OKORO & MTE KHAN

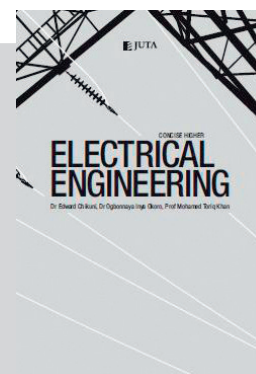
*Concise Higher Electrical Engineering* provides students with both a thorough knowledge of the fundamentals of electrical engineering and an introduction to the practice of engineering. It integrates into one volume the most important topics in Electrical Engineering at university level, covering the entire Electrical Engineering curriculum.

## KEY FEATURES

- The chapter on modelling or power systems compares manual examples with computerised methods
- Other chapters in this book include electrical distribution design, illumination and electrical network protection
- The chapter on industrial automation includes examples with real programmable controllers
- It includes a large number of examples and exercises
- The book contains a wealth of illustrations that aid the student's understanding of the subject matter.

## SUITABLE FOR

Undergraduate Electrical Engineering students at university or university of technology.



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978 0 70219 675 1

**ZAR R456.00**

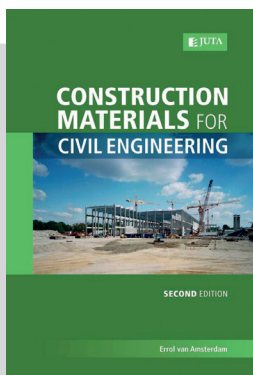


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2e 2013



304 PAGES

## CONSTRUCTION MATERIALS FOR CIVIL ENGINEERING

### E VAN AMSTERDAM

*Construction Materials for Civil Engineering 2e* bridges the gap between school and university by providing practical examples and everyday concepts. These are applied to explain, in plain language, the fundamentals of civil engineering. The book has been fully revised and includes a new chapter on internal building materials.

#### CONTENTS

- Soils
- Concrete
- Bitumen
- Structural material: brick, timber, steel and aluminium
- Environmental issues
- Internal building construction materials used for finishes.

#### KEY FEATURES

- Clear language explains technical terminology and concepts
- Fully worked examples within each section
- Self-evaluation questions with answers are included in each section
- The process of constructing a house is used throughout the book as an example
- Suitable for both contact and distance education.

#### SUITABLE FOR

- Tertiary students studying towards a National Diploma or Bachelor's Degree in Civil Engineering.
- Essential reading for anyone looking to gain a firm grounding in the application of materials within the field of civil engineering in general.



If you are a teaching academic or course leader, you may request a **FREE inspection** copy to consider as textbooks for students on your course. The Request Form is at the back of this catalogue; alternatively, go to **[bit.ly/jutainspecform](https://bit.ly/jutainspecform)**

# CONSTRUCTION METHODS FOR CIVIL ENGINEERING

## E VAN AMSTERDAM

*Construction Methods for Civil Engineering* explains, in plain language, the fundamentals of civil engineering through practical examples and everyday concepts. It has in-depth explanations of various civil engineering concepts and acknowledges the major shift of focus towards Expanded Public Works Programmes and employment creation. It encourages students to access virtual information through recommended websites and other sources of information. Civil engineering concepts are related to situations encountered in the field to enhance understanding of these concepts.

### CONTENTS

- Earthworks
- Structures
- Road engineering
- Dams
- Bridges
- Tunnels
- Harbours
- Railways
- Airports
- Safety
- Drainage

### KEY FEATURES

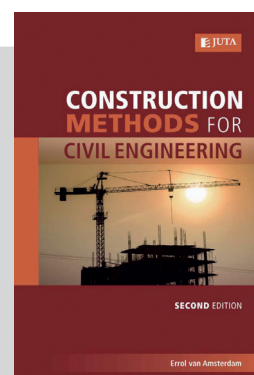
- Clear language explains technical terminology and concepts
- Assumes no prior knowledge of construction methods
- Self-evaluation questions with answers are included in each chapter.

### ABOUT THE AUTHOR

Errol van Amsterdam is a former lecturer at Cape Peninsula University of Technology and the owner and Managing Director of C2C Consulting Engineers. He holds a Masters degree in Engineering Management.

### SUITABLE FOR

Tertiary students who are studying towards a National Diploma or Bachelor's Degree in Civil Engineering.



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**ZAR R384.00**

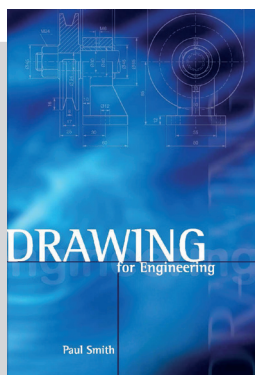


2e 2014



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## DRAWING FOR ENGINEERING

P SMITH

Based on the South African Bureau of Standards Code of Practice for Engineering Drawing (SABS 0111), this book is a step-by-step guide to drawing techniques. It teaches both technical drawing and freehand sketching, and has special units with applications for mechanical and chemical engineering.

### KEY FEATURES

- Graphics are used to explain difficult concepts
- Promotes learning through stimulating activities
- Suitable for individual or group study
- Teaches principles via explicit examples
- Self-evaluation exercises support the learner throughout
- Answers provided to all exercises and activities.

### SUITABLE FOR

- First-year engineering students or related disciplines
- Anyone looking to gain a firm grounding in one of the key disciplines of engineering.



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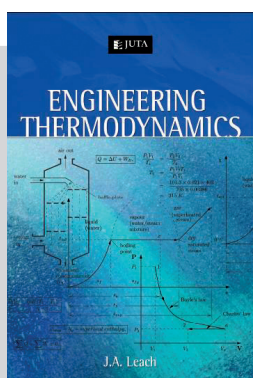
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1999



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## ENGINEERING THERMODYNAMICS

JA LEACH

*Engineering Thermodynamics* deals with the application of these laws to power-generating plants, such as coal-fired power stations. It is an important subject that has serious implications for our future industrial development.

### KEY FEATURES

- Short chapters so that the desired outcomes can be easily followed
- Ample worked examples followed by self-assessment exercises with answers
- Important terms summarised in a glossary for easy reference.

### ABOUT THE AUTHOR

JA Leach holds a Masters in an Applied Mathematics and a National diploma in Mechanical Engineering. He is a student member of the South African Mathematical Society (SAMS) and the South African Institute of physics (SAIP).



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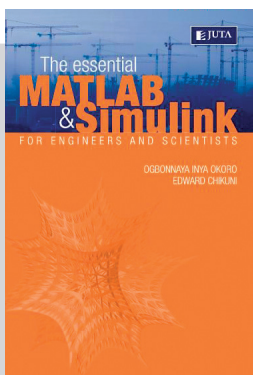


**TOP**

# ENGINEERING TITLES

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2010



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## ESSENTIAL MATLAB & SIMULINK, THE For Engineers and Scientists OI OKORO & E CHIKUNI

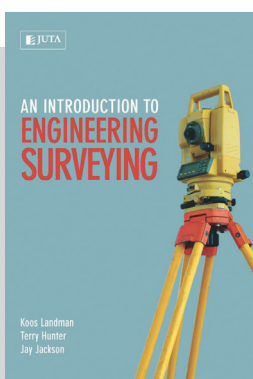
*MATLAB* is a software package for high-performance computation. Combined with Simulink, this is a de-facto industry standard for the analysis, modelling and visualising of complex systems.

### KEY FEATURES

- Real-life examples and systems to enhance understanding
- Exercises at the end of each chapter to test your understanding of the concepts
- Extended coverage of engineering applications
- References for additional reading.

### SUITABLE FOR

Engineers, scientists and those in the financial sector who want to grasp the essence of systems modelling and computation.



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**ZAR****R420.00**

2012



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## INTRODUCTION TO ENGINEERING SURVEYING, AN K LANDMAN, T HUNTER & J JACKSON

*An Introduction to Engineering Surveying* covers a wide range of spatial measurement methods that support civil engineering planning. The methods described include levelling, traversing, satellite surveying, preparation of topographic maps and setting out of roads, construction platforms and reservoirs.

### CONTENTS

- Introduction to engineering surveying
- The South African survey reference system and basic co-ordinate calculations
- Angle and distance measurement
- Traversing using a total station
- Calculations on the projection
- Satellite surveying
- Cadastral surveying
- The determination of heights
- Circular curves
- Transition curves
- Vertical curves
- Construction surveying
- Topographical surveys

### KEY FEATURES

- The map co-ordinate conventions adopted in southern African survey datums are used throughout. The reader is also introduced to the international UTM co-ordinate system as well as to geographical co-ordinates
- The Cape, Hart94 and ITRF survey datums as well as modern control system support through VRS are described
- The cadastral methods used in South Africa and most SADC countries are described
- All methods and techniques are illustrated and explained.

## ABOUT THE AUTHORS

Koos Landman is a senior lecturer and programme co-ordinator at Mangosuthu University of Technology for the Surveying Programme.

Terry Hunter is a senior lecturer and survey co-ordinator at Durban University of Technology.

Jonathan Jackson is a retired senior lecturer from the University of KwaZulu-Natal with teaching experience at three other universities.

## SUITABLE FOR

Civil Engineering and Geomatics or Land Surveying tertiary students who are studying towards a Bachelor's Degree or a National Diploma.

## INTRODUCTION TO FLOOD HYDROLOGY

**J HAARHOFF & AM CASSA**

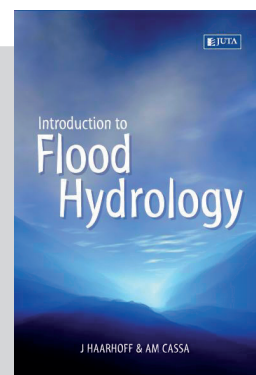
*Introduction to Flood Hydrology* brings together in a single volume all the formulae, maps and graphs necessary for a comprehensive understanding of flood hydrology, amply illustrated by worked examples. The flood estimation methods it contains were developed specifically for South African conditions. While the book retains its focus on fundamental principles, it introduces readers to a rich matrix of data and methods available to the South African hydrologist, thereby serving as a valuable reference tool for practising engineers, technologists and technicians.

## KEY FEATURES

- Learning outcomes at the start of each section to indicate what you will achieve
- A summary formula hand-out sheet is provided to be used by lecturers during tests and examinations
- Fully worked examples at the end of each section
- Comprehensive coverage of flood estimation methods: all the empirical, deterministic and probabilistic methods commonly used in South African practice are presented
- Flood routing procedures to allow the routing of floods through rivers and dams
- Boxed hydrology equations for convenient reference and review at the end of each section.

## SUITABLE FOR

Undergraduate Hydrology students who are studying towards a Bachelor's Degree or a National Diploma.



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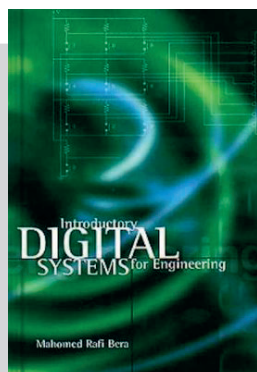


2009



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1999



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## INTRODUCTORY DIGITAL SYSTEMS FOR ENGINEERING

**MR BERA**

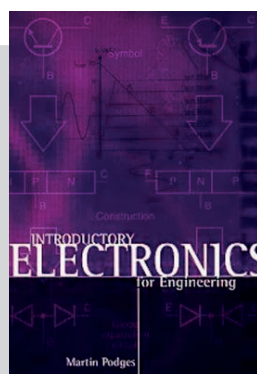
*Introductory Digital Systems for Engineering* teaches the principles and techniques of digital systems through a range of examples. It has step-by-step solutions to exercises and over 200 practical examples, activities and self-evaluation exercises to assist the learner. A glossary of important terms makes it easily accessible to the new learner.

### KEY FEATURES

- No prior knowledge of digital systems is required
- Graphics are used to explain difficult concepts
- Teaches principles and techniques through a range of examples
- Suitable for individuals or groups and for distance education
- Over 200 practical examples, activities and self-evaluation exercises assist the learner
- Glossary of important terms.

### SUITABLE FOR

Digital Systems tertiary students who are studying towards a Bachelor's Degree or a National Diploma.



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## INTRODUCTORY ELECTRONICS FOR ENGINEERING

**M PODGES**

This book introduces students to all the basics of electronics. After working through this book, a student will have a good knowledge of DC power supplies, signal or function generators, digital multimeters, oscilloscopes and low-power analogue electronic devices.

### KEY FEATURES

- No prior knowledge of electronics is required
- Graphics are used to explain difficult concepts
- Promotes learning through stimulating activities
- Suitable for individual or group study
- Teaches principles via explicit examples
- Self-evaluation exercises support the learner throughout
- Answers provided to all exercises and activities.

### SUITABLE FOR

Engineering students requiring a basic knowledge of Electronics who are studying towards a Bachelor's Degree or a National Diploma.

# MANAGEMENT FOR ENGINEERS, TECHNOLOGISTS AND SCIENTISTS

## WP NEL (EDITOR)

*Management for Engineers, Technologists and Scientists* introduces the reader to management and related issues, which are essential when dealing with customers, suppliers, contractors, accountants and managers, either inside or outside of an organisation.

### CONTENTS

- The environment in which technical people work
- Principles of general management
- Human resource management
- The impact of employment relations and labour legislation on an organisation
- Managing people and teams
- Engineering contracts and law
- Operations management
- Total quality management
- An introduction to safety management
- Maintenance management
- Marketing and diffusion of innovation
- The engineer, user of information and communication systems
- Principles of project management
- Introduction to accounting, economics, financial management and budgeting
- Cost estimating, cost engineering and cost management
- Time value of money and project selection
- Business and technology strategy
- Managing technology and innovation
- An overview of environmental management and sustainable development concepts for management practices
- Entrepreneurship
- Ethics for engineering professionals
- Glossary, industry terms and acronyms

### KEY FEATURES

- This edition has been substantially revised
- All-new chapter on engineering ethics
- WOHCbook on CD
- Additional information vital to those working in small- and medium-sized enterprises.

### ABOUT THE EDITOR

Willem (Willie) P Nel is a senior lecturer and the coordinator for Mining at the University of South Africa's School of Engineering. He holds qualifications in mining, management, physical and mathematical sciences, and economics.

### SUITABLE FOR

- Senior undergraduate engineering students and those working in an engineering discipline
- An invaluable tool for the existing or aspirant technical manager.



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**ZAR R683.00**



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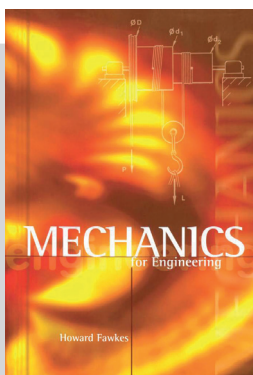
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3e 2012



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**ZAR****R467.00**

1999



416 PAGES

## MECHANICS FOR ENGINEERING

**H FAWKES**

This book introduces all the basic concepts of mechanics – from measurement accuracy, through the concepts of moments and equilibrium, gravity and friction, to the application of momentum and impulse.

### KEY FEATURES

- Graphics are used to explain difficult concepts
- Promotes learning through stimulating activities
- Suitable for individual or group study
- Teaches principles via explicit examples
- Self-evaluation exercises support the learner throughout
- Answers provided to all exercises and activities.

### SUITABLE FOR

Engineering students requiring a basic knowledge of the basic concepts of mechanics who are studying towards a Bachelor's Degree or a National Diploma.



978 0 70212 758 8

**ZAR****R368.00**

3e 1998



192 PAGES

## SANITARY PLUMBING SERVICES IN SOUTH AFRICA

**BH CLARK**

This is the first book published in South Africa that deals comprehensively with the engineering aspects of hot and cold water reticulation, sanitary plumbing above ground and drains below ground. Many years of experience of architectural practice and a careful examination of the current thinking of experts in the field, have enabled the author to establish the critical areas of knowledge and to present this in an easily followed and comprehensively illustrated text.

### KEY FEATURES

- The best present-day practices are explained
- Practical diagrams are found throughout the text
- The work traces the evolution of plumbing, enabling the reader to comprehend regulations in force
- The high pressure balanced hot-cold reticulation, with a detailed examination of layout considerations, material selection and all important issues of control fittings and pipe sizings
- Various sanitary plumbing discharge systems are examined, leading to the advanced single stack pipe system and closed drainage system that eliminates complex, wasteful and unsightly pipe work, maintenance, manholes and open gullies.





# Management for Engineers, Technologists and Scientists

3<sup>rd</sup> edition

**EDITOR: WP NEL**

*Management for Engineers, Technologists and Scientists* third edition introduces the reader to management and related issues, which are essential when dealing with customers, contractors, accountants and managers, either inside or outside of an organisation.

**ZAR** R683.00



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**KWAZULU-NATAL, FREE STATE, GAUTENG, NORTHERN CAPE AND EASTERN CAPE**

77 Tatham Road, Prestbury, Pietermaritzburg, 3201

Tel: +27 (33) 344 3159 • Cell: +27 (83) 367 9720

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**KWAZULU-NATAL, EASTERN CAPE, MPUMALANGA, LESOTHO & SWAZILAND**

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## AUTHOR INDEX

### B

Bera MR, 12

### C

Cassa AM, 11  
Chikuni E, 10  
Chikuni E, 5  
Clark BH, 14  
Constantinovici LD, 5

### F

Fawkes H, 14

### G

Govindsamy M, 5

### H

Haarhoff J, 11  
Hunter T, 10

### J

Jackson J, 10

### K

Khan MTE, 5

### L

Landman K, 10  
Leach JA, 8

### N

Nel WP, 13, 15

### O

Okoro OI, 5, 10

### P

Podges M, 12

### S

Smith P, 8

### V

Van Amsterdam E, 6, 7

## TITLE INDEX

### B

*Basic Circuit Analysis for Electrical Engineering*, 5

### C

*Concise Higher Electrical Engineering*, 5  
*Construction Materials for Civil Engineering*, 6, 7

### D

*Drawing for Engineering*, 8

### E

*Engineering Thermodynamics*, 8  
*Essential MATLAB & Simulink, The*, 10

### I

*Introduction to Engineering Surveying*, An, 10  
*Introduction to Flood Hydrology*, 11  
*Introductory Digital Systems for Engineering*, 12  
*Introductory Electronics for Engineering*, 12

### M

*Management for Engineers, Technologists and Scientists*, 13  
*Management for Engineers, Technologists and Scientists*, 15  
*Mechanics for Engineering*, 14

### S

*Sanitary Plumbing Services in South Africa*, 14



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