

## Basic Programming Principles

2nd Edition

The ability to clearly specify each step to create a problem-free computer program is a primary skill needed by programmers. *Basic Programming Principles* 2nd edition guides beginner programmers through the challenges of planning a computer program by presenting the text in a simple and straightforward manner. It contains many examples and exercises with explanations and answers that promote understanding. New exercises provide opportunities for students to apply the principles of programming and problem-solving, and learning outcomes highlight the key learning areas. It is an update of *Basic Programming Principles Using Visual Basic .Net* 2nd edition without reference to the Visual Basic .Net.

The book covers:

- general programming concepts and calculations
- understanding problems and planning solutions
- writing algorithms in sequential steps
- the selection-control structure
- iteration using a loop count and do-loop
- functions and procedures
- array processing
- sequential text files and
- introduction to object-oriented programming concepts

The book aims to encourage beginner programmers to see all problems as challenges and to seek all possible ways to solve these problems in the most effective, efficient and economical way.

**Corrie Pretorius and Helen Erasmus** have been in tertiary education for more than 30 years and understand the anxieties of beginner programmers and the obstacles concerning the subject requires. It has always been their passion to encourage students to become logical thinkers and to assist them to develop problem-solving skills. This book lays a solid foundation for students who are being exposed to programming for the first time.



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# Basic Programming Principles

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CM Pretorius and HG Erasmus

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**Herbert Schildt**



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[Drying and Storage of Cereal Grains](#) B. K. Bala, 2016-11-04 Finite Element Analysis and Computational Fluid Dynamics have been introduced in modelling and simulation of drying and storage systems these techniques are expected to dominate the future research and development of drying and storages and should reduce losses and improve the quality of agricultural products enhancing food security globally *Drying and Storage of Cereal Grains Second Edition* covers the wide spectrum of drying and storage methods applied to economically important cereal produce providing numerical examples for better understanding the complexity in drying and storage systems through modelling and simulation aiding design and management of drying and storage systems Chapters 1 to 8 look at air and grain moisture equilibria psychrometry physical and thermal properties of cereal grains principles of air flow and provide detailed analyses of grain drying Chapters 9 to 13 focus on temperature and moisture in grain storages and provide comprehensive treatment of modern grain storage systems The book also includes a number of unsolved problems at the end of each chapter for further practice This revised second edition includes new sections on heat of sorption finite element modeling of single kernel CFD modeling of fluidized bed drying exergy analysis and neural network modeling numerical solution of two dimensional temperature and moisture changes in stored grain This book will provide students in agricultural engineering and food engineering with a wide spectrum of drying and storage studies previously unavailable in a single monograph It will also serve as an excellent reference for practicing agricultural engineers food engineers and food technologists

*Basic Programming Principles 2/E ePDF*, 2015

**Deep Learning: Practical Neural Networks with Java** Yusuke Sugomori, Bostjan Kaluza, Fabio M. Soares, Alan M. F. Souza, 2017-06-08 Build and run intelligent applications by leveraging key Java machine learning libraries About This Book Develop a sound strategy to solve predictive modelling problems using

the most popular machine learning Java libraries Explore a broad variety of data processing machine learning and natural language processing through diagrams source code and real world applications This step by step guide will help you solve real world problems and links neural network theory to their application Who This Book Is For This course is intended for data scientists and Java developers who want to dive into the exciting world of deep learning It will get you up and running quickly and provide you with the skills you need to successfully create customize and deploy machine learning applications in real life What You Will Learn Get a practical deep dive into machine learning and deep learning algorithms Explore neural networks using some of the most popular Deep Learning frameworks Dive into Deep Belief Nets and Stacked Denoising Autoencoders algorithms Apply machine learning to fraud anomaly and outlier detection Experiment with deep learning concepts algorithms and the toolbox for deep learning Select and split data sets into training test and validation and explore validation strategies Apply the code generated in practical examples including weather forecasting and pattern recognition In Detail Machine learning applications are everywhere from self driving cars spam detection document search and trading strategies to speech recognition Starting with an introduction to basic machine learning algorithms this course takes you further into this vital world of stunning predictive insights and remarkable machine intelligence This course helps you solve challenging problems in image processing speech recognition language modeling You will discover how to detect anomalies and fraud and ways to perform activity recognition image recognition and text You will also work with examples such as weather forecasting disease diagnosis customer profiling generalization extreme machine learning and more By the end of this course you will have all the knowledge you need to perform deep learning on your system with varying complexity levels to apply them to your daily work The course provides you with highly practical content explaining deep learning with Java from the following Packt books

**Java Deep Learning Essentials** Machine Learning in Java Neural Network Programming with Java Second Edition Style and approach This course aims to create a smooth learning path that will teach you how to effectively use deep learning with Java with other de facto components to get the most out of it Through this comprehensive course you ll learn the basics of predictive modelling and progress to solve real world problems and links neural network theory to their application

**TCP/IP Sockets in C#** David Makofske,Michael J. Donahoo,Kenneth L. Calvert,2004-04-29 This volume focuses on the underlying sockets class one of the basis for learning about networks in any programming language By learning to write simple client and server programs that use TCP IP readers can then realize network routing framing error detection and correction and performance

**Predictive Analytics, Data Mining and Big Data S.** Finlay,2014-07-01 This in depth guide provides managers with a solid understanding of data and data trends the opportunities that it can offer to businesses and the dangers of these technologies Written in an accessible style Steven Finlay provides a contextual roadmap for developing solutions that deliver benefits to organizations

Schaum's Outline of Electronic Devices and Circuits, Second Edition Jimmie J. Cathey,2002-02-22 This updated version of its internationally

popular predecessor provides and introductory problem solved text for understanding fundamental concepts of electronic devices their design and their circuitry Providing an interface with Pspice the most widely used program in electronics new key features include a new chapter presenting the basics of switched mode power supplies thirty one new examples and twenty three PS solved problems [C/C++ Users Journal](#) ,1997-07 [The Software Encyclopedia](#) ,1988 *Resources in Education* ,1998 *Comprehensive Handbook of Psychological Assessment, Volume 3* Stephen N. Haynes,Elaine M. Heiby,2003-09-18 In one volume the leading researchers in behavioral assessment interpret the range of issues related to behavioral tests including test development and psychometrics clinical applications ethical and legal concerns use with diverse populations computerization and the latest research Clinicians and researchers who use these instruments will find this volume invaluable as it contains the most comprehensive and up to date information available on this important aspect of practice *The Century Dictionary and Cyclopedia: Supplement* ,1910 [The Century Dictionary: The Century dictionary](#) ,1911 **The Century Dictionary and Cyclopedia: The Century dictionary ... prepared under the superintendence of William Dwight Whitney ... rev. & enl. under the superintendence of Benjamin E. Smith** ,1911 *The Century Dictionary* ,1914 [The Century Dictionary and Cyclopedia: New volumes](#) William Dwight Whitney,Benjamin Eli Smith,1910 **The Century Dictionary Supplement** Benjamin Eli Smith,1909 **The Century Dictionary Supplement** ,1910 **The Century Dictionary: The Century cyclopedia of names** ,1910

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