ADSUL'S TECHNICAL CAMPUS

A/P -CHAS, TAL - AHMEDNAGAR, DIST - AHMEDNAGAR,
PIN - 414005.

Criteria 3- Research, Innovations and Extension

3.3- Research Publications and Awards

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Numerical Methods and Computer Programming

Semester IV – Electrical Engineering
(Pune University)

As per the new revised syllabus w.e.f. academic year 2013-2014

Prof. A. B. Auti

M.E. (Heat Power)
Formerly Head, Mechanical Engineering Department,
Symbiosis Institute of Technology,
Lavale, Mulshi, Pune-42.
Formerly, Ex. Assistant Professor & Head, Mechanical Department,
G. S. Moze college of Engineering
Balewadi Pune – 411045
T. P. O. and student welfare officer
Co-ordinator, Renewable Energy club
Member, SAE INDIA, The Engineering society

Prof. Nisha Auti

Assistant Professor,
Computer Science/IT Department,
Symbiosis Institute of Technology,
Pune

Mr. Mandar Sapre

M.Tech (CAD/CAM)
Faculty, Mechanical Engineering Department,
Symbiosis Institute of Technology,
Pune

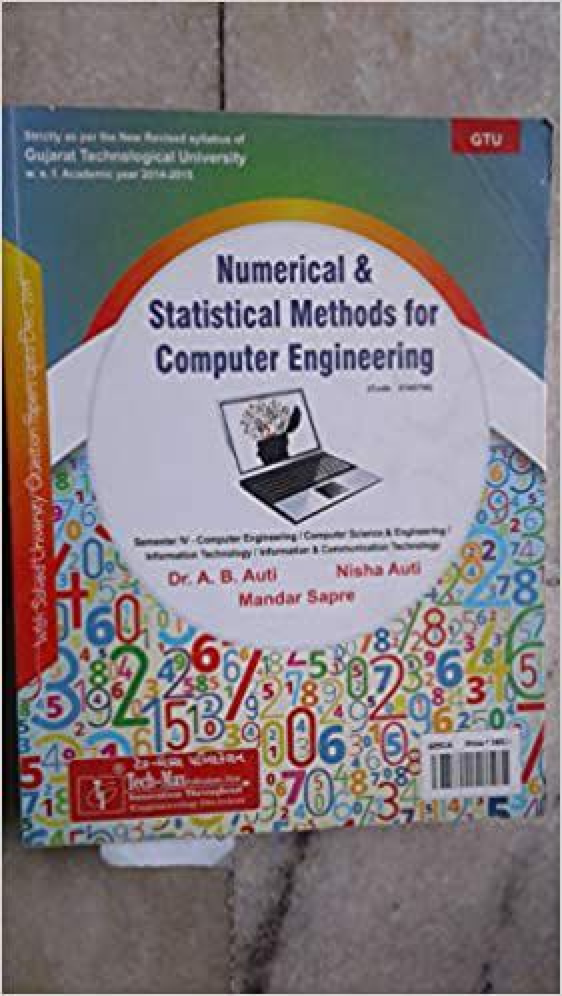
Tech-Max Publications, Pune
Innovation Throughout Engineering Division

PE96A Price ₹ 495/-

DATA COMMUNICATION AND NETWORKING

A Practitioner Approach Towards Conceptualisation

Dr. Sajidullah S. Khan


Gujarat Technological University
GTU
Numerical & Statistical Methods for Computer Engineering
Dr. A. B. Auti
Nisha Auti
Mandar Sapre

HU

Mechanical Engineering & Allied Branches

MCQ's

Computational Methods

Dr. A. B. Auti
Dr. Nisha A. Auti
Hurlidhar C. Patil

Tech-Neo

Dr Yashpal Singh
Dr Abhijit B Auti
Piyush Ashokrao Dalke

Introduction to Mechanical Engineering

A Short Communication on Mechanical Engineering

LAP LAMBERT Academic Publishing

International Conference On Computational Vision and Bio Inspired Computing

ICCVBIC 2019: **Computational Vision and Bio-Inspired Computing**, pp 779–787

Segmentation and Classification of Primary Brain Tumor Using Multilayer Perceptron

Shubhangi S. Veer (Handore), Anuoama Deshpande, P. M. Patil & Mahendra V. Handore

Conference paper | First Online: 07 January 2020

1360 Accesses | **1** Citations

Part of the Advances in Intelligent Systems and Computing book series (AISC,volume 1108)

Abstract

Brain is one of the complex organs of human nervous system where billions of neurons will form a gigantic network. Identification of infected region in such nervous system is a challenging task. The brain

Iris Recognition Using Local and Global Iris Image Moment Features

Publisher: IEEE

Pradeep Patil ; K. Vasanth **All Authors**

U-Healthcare Monitoring Systems
Volume 1: Design and Applications
Advances in Ubiquitous Sensing Applications for Healthcare
2019, Pages 89-117

Chapter 5 - Embedded healthcare system for day-to-day fitness, chronic kidney disease, and congestive heart failure

Pradeep M. Patil *, Durgaprasad K. Kamat †

https://doi.org/10.1016/B978-0-12-815370-3.00005-0

Abstract

This chapter contributes toward real-time data collection, data management, system design, and analysis related to the U-healthcare system for body composition measurement. The application domains of the developed system include diagnostic services, decision-support systems, and U-healthcare systems that assist people in day-to-day fitness as well as for chronic disease conditions. This chapter explains the development of predictive regression models for day-to-day fitness, chronic kidney disease, and congestive heart failure using bioimpedance. The chapter begins with an explanation of mechanisms of human body composition. The main emphasis is on total body water being a major and basic component of body composition analysis. Various empirical relations used in the body composition measurements are presented. The importance of recording bioimpedance and anthropometric parameters of the human body in the development of predictive regression models has been explained. The bioimpedance measurement, used

International Conference on Futuristic Communication and Network Technologies

VICFCNT 2020: **Futuristic Communication and Network Technologies** pp 231–239

Fabric Defect Detection Using Modified Local Neighborhood Analysis

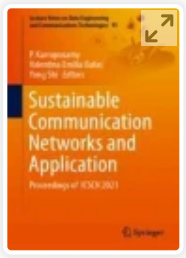
Maheshwari S. Biradar, P. M. Patil & B. G. Sheeparamatti

Conference paper | First Online: 12 October 2021

Part of the Lecture Notes in Electrical Engineering book series (LNEE,volume 792)

Abstract

Fabric defect detection plays a crucial role in the textile industry to improve the quality of service of the fabric texture. Automatic fault detection in fabric is challenging because of the variety of texture patterns, manufacturing defects, defects due to dyeing, and defects due to external environmental conditions. **Existing local neighborhood analysis (LNA) for defect detection has given poor performance for smaller and light color variation defects.** To deal with such conditions, this paper presents the unsupervised modified local



Sustainable Communication Networks and Application pp 603–620

Reconfigurable 1:4 Wilkinson Power Divider Used in ISM Band Applications

Aparna B. Barbadekar & Pradeep M. Patil

Conference paper | First Online: 17 January 2022

Part of the Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT,volume 93)

Abstract

Many researchers have contributed to the technical developments of a variety of multistage power dividers based on the Wilkinson topology by replacing the quarter wave transmission line section with other means. It was possible to reduce the size of the power divider to a great extent but the S-parameters were largely affected. This was due to the effect of termination, discontinuties, mismatching losses and manufacturing tolerance. Amplitude and phase imbalance also contributed to destabilised performance of power dividers. The current paper