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machining area  
so that  
fundamental  
mechanics and  
other concepts  
related to  
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processes could  
be understood.  
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essentially  
designed for

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senior  
undergraduate  
mechanical and  
production  
engineering  
students but  
practicing  
engineers will  
also find it  
useful for tool  
and product  
design. The  
topics covered

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include plastic deformation, chip formation, tool geometry, mechanics of orthogonal and oblique cutting, measurement of cutting force, cutting temperature, tool wear and

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presented have  
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illustrated  
through  
numerical

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examples.

Review

questions and

bibliography

are also

included. About

the Author: Dr.

G.K. Lal has

been associated

with the Indian

Institute of

Technology,

Kanpur for the



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past 34 years.  
He retired as a  
Professor of  
Mechanical  
Engineering in  
2003 and had  
earlier held  
the positions  
of Dean  
(1976-80) and  
Deputy Director  
(1982-88).  
Before joining

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IIT Kanpur he  
had taught at  
the Banaras  
Hindu  
University and  
held research  
positions at  
the University  
of Sherbrooke  
(Canada) and  
the Carnegie-  
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(USA). He also worked as a Design Engineer with the Abitibi Paper and Power Corp. of Canada.

Programmable Logic Devices (PLDs) have become the key implementation medium for the

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vast majority  
of digital  
circuits  
designed today.  
While the  
highest-volume  
devices are  
still built  
with full-  
fabrication  
rather than  
field programma  
bility, the

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trend towards  
ever fewer  
ASICs and more  
FPGAs is clear.  
This makes the  
field of PLD  
architecture  
ever more  
important, as  
there is  
stronger demand  
for faster,  
smaller,

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cheaper and lower-power programmable logic. PLDs are 90% routing and 10% logic. This book focuses on that 90% that is the programmable routing: the manner in which the

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programmable  
wires are  
connected and  
the circuit  
design of the  
programmable  
switches  
themselves.  
Anyone seeking  
to understand  
the design of  
an FPGA needs  
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erate in the complexities of programmable routing architecture.

This book builds on the state-of-the-art of programmable interconnect by providing new methods of investigating



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and measuring interconnect structures, as well as new programmable switch basic circuits. The early portion of this book provides an excellent survey of interconnec

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tion structures and circuits as they exist today. Lemieux and Lewis then provide a new way to design sparse crossbars as they are used in PLDs, and show that the method works

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with an  
empirical  
validation.

This is one of  
a few routing  
architecture  
works that  
employ  
analytical  
methods to deal  
with the  
routing archi  
tecture design.

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The analysis permits interesting insights not typically possible with the standard empirical approach.

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Electrical

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Domain-driven  
Design  
Design of  
Interconnection  
Networks for  
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Syllabus)  
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questions of exams such as GATE and various PSUs exams. Each question in the later section has been tagged with the exam name to make the preparation all the more easier. This combination of conceptual questions and previous year's

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Topics in

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Computer

Awareness is an important section for various exams of the country including IBPS, SBI (Bank PO & Clerk), SSC, Railway, Police and many other state competitive exams. Hence, it

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and 5 Practice  
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Practice.

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Glossary are also  
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study supported by  
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examples,

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and its Services,

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book is designed  
both for

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techniques through  
examples from  
familiar domains,  
such as a Scrum-

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Electronic Devices

& Circuits

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a well-  
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that has been  
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many years of  
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electric  
circuits, mesh  
and node  
equations,  
network  
analysis and  
network  
theorems,  
signals and its  
properties,  
graph theory  
and its  
application in

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circuit  
analysis,  
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systems,  
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Wide coverage  
of evolution  
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port networks,  
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formulation of  
network  
problems and  
network  
synthesis have  
been made.  
Transient  
response and  
frequency

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domain analysis of network systems has also been discussed. The hall-mark feature of this text is that it helps the reader to gain a sound understanding on the basics

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of circuit  
theory.

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students of  
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Theory Design  
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**for emerging  
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amplifiers for  
short is distance  
wireless  
personal and  
local area  
networks (PAN  
and LAN),  
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and tradeoffs in  
designing linear  
and nonlinear  
power  
amplifiers. It  
then details  
design**

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wireless  
applications (e,  
g., Bluetooth,  
WLAN) including  
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Design aspects**

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deep submicron  
CMOS are also  
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and  
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reference for RF  
IC design**

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RD and R&D  
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students  
conducting  
research in  
wireless  
semiconductor  
IC design in  
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AND DISCRETE-  
TIME SYSTEMS,**

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are necessary to  
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development,  
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dermatological effects  
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**cosmetics in a  
systematic manner  
Design and MATLAB  
concepts have been  
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Integrates applications  
as it relates signals to a  
remote sensing system,  
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biomedical system and  
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Ac Circuits | Active  
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This book provides a readable and elegant presentation of the principles of anomaly detection, providing an easy introduction for newcomers to the field. A large number of

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algorithms are succinctly described, along with a presentation of their strengths and weaknesses. The authors also cover algorithms that address different kinds of problems of interest with single and multiple time series data and multi-dimensional data. New ensemble anomaly detection

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algorithms are described, utilizing the benefits provided by diverse algorithms, each of which work well on some kinds of data. With advancements in technology and the extensive use of the internet as a medium for communications and commerce, there has been a tremendous increase in the threats

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faced by individuals and organizations from attackers and criminal entities. Variations in the observable behaviors of individuals (from others and from their own past behaviors) have been found to be useful in predicting potential problems of various kinds. Hence computer scientists and statisticians have been

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conducting research on automatically identifying anomalies in large datasets. This book will primarily target practitioners and researchers who are newcomers to the area of modern anomaly detection techniques. Advanced-level students in computer science will also find this book helpful with their

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Circuits

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