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fundamentals,
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under sea

communication,

satellite cell-phones,

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as based on his
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strategy for creating

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desirable reactions
in customers.

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2008) was written
for those concerned
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performance of
satellite
communications

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systems employed
in fixed point to
point, broadcasting,
mobile, radio

navigation, data
relay, computer
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and related satellite
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This welcome
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and related areas.
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and wireless
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engineers, systems
engineers, and
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broadcasts of digital

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Systems

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geometry, launch
vehicles, radio-
frequency link,
transponders, earth**

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mechanics,
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construction,
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techniques,
multiple access,**

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**and a detailed
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has grown
immensely,
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Low Earth Orbit
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**spreadsheets that
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equations and
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this book gives the
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and professionals
the tools and**

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to prepare their**

**own LEO satellite
designs, which is**

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for designers of

small satellites such

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various

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**parts of a satellite
system function,
how various
components**

**interact, which role
each component
plays, and which
factors are the
most critical to
success."**

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industry has
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explosive growth.**

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direct-to-home
satellite television,
satellite**

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telephones, and
satellite guidance
for automobiles
are now common
and popular
consumer
products.**

**Similarly, business,
government, and
defense**

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well as all new and
modernized
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increasingly in tele
communications,
scientific research,
surveillance, and
meteorology, and***

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***these satellites
rely heavily on the
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control and the
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emphasis
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*conditions, along
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attitude
stabilization, and
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dynamics and
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of satellites
for Internet
access are set

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systems, radio
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systems.

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field of small

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use data
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owners,
operators,
launch
vehicles, and
costs. Focus
then turns to
describing the**

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orbit,
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components,
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of the
geostationary
communications
satellite
because it
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daily lives
the most by

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prepares for

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the included

Mission

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to place and

keep this

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orbit and keep

the antennas

pointing in

the right

direction to

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mission. The
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of this book

is to

stimulate a
broad interest
in engineering
and science.

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satellites and also

briefly talks about

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applications

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and in-orbit

operations before
going on to

describe satellite
hardware. Commun
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topics like
modulation and
multiplexing

techniques,
multiple access
techniques, link

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access, earth station
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Edition covers the
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engineering from
orbital mechanics
to satellite design
and launch,

configuration and
installation of earth
stations, including
the implementation
of communications
links and the set-up
of the satellite
network. This book
provides a

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comprehensive
treatment of
satellite

communications
systems

engineering and
discusses the
technological
applications. It
demonstrates how
system components
interact and details
the relationship

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between the system and its environment. The authors discuss the systems aspects such as techniques enabling equipment and system dimensioning and state of the art technology for satellite platforms,

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payloads and earth
stations. New

features and

updates for the fifth
edition include:

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on techniques
allowing service
provision of
multimedia content

Extra material on
techniques for
broadcasting,

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including recent
standards DVB-RCS
and DVB-S2 (Digital
Video Broadcasting

-Return Channel

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-Satellite Version 2)

Updates on

onboard processing

By offering a

detailed and

practical overview,

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Communications
Systems continues
to be an

authoritative text
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students, engineers
and designers
throughout the
field of satellite
communications
and engineering.
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communications
technologies, the
decades-old

satellite industry is
shifting with the
times. Now in its
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myriad aspects of
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The breakup of
the Space
Shuttle Columbia
as it reentered
Earth's
atmosphere on
February 1,
2003, reminded
the public--and
NASA--of the

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grave risks
posed to

spacecraft by

everything from

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to space debris.

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to-date account

of a wide range

of less

conspicuous but

no less

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consequential
environmental

effects that can

damage or cause

poor performance

of orbiting

spacecraft.

Conveying a

wealth of

insight into the

nature of the

space

environment and

how spacecraft

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interact with
it, he covers
design
modifications
aimed at
eliminating or
reducing such
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effects as solar
absorptance
increases caused
by self-
contamination,
materials

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erosion by
atomic oxygen,
electrical

discharges due
to spacecraft
charging,

degradation of
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circuits by

radiation, and
bombardment by
micrometeorites.

This book is
unique in that

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it bridges the gap between studies of the space environment as performed by space physicists and spacecraft design engineering as practiced by aerospace engineers.

Here's the new
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fundamental

concepts and

their state-of-

the-art

application in

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telephone,

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transmission,

television,

satellite and

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derivations and

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for problem-
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select areas.

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space need to

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all this along

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figures as well

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**link About The
Book: Satellite
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gives the reader a
thorough
knowledge of the
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to cover orbits,
propagation, and
the equipment that
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working system.**

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**the field, with
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environment,**

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mission analysis

and system

engineering, and

progresses to a

detailed

examination of

subsystem elements

which represent the

core of spacecraft

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mechanical,

electrical,

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propulsion,

thermal, control

etc. This

quantitative

treatment is

supplemented by

an appreciation of

the interactions

between the

elements, which

deeply influence the

process of

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design. In
particular the
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chapter on small
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applications which
has been
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engineering. *

**Additions to the
mission analysis
chapter, treating
issues of aero-
manoeuvring,
constellation design
and small body**

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summary, this is an
outstanding
textbook for**

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design students,
and offers essential
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designers and**

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starts from
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concepts and helps reader to design satellite links. The book provides a smooth flow from satellite launch to various applications of satellite. It contains satellite systems, important parameter calculations and

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design concepts. The emphasis is on geostationary satellites. The text is organized in such a manner that the reader starts with orbiting parameters and ends at designing a complete multiple access links. With all of the latest

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incorporated and
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several key
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pedagogical

attributes included,
this textbook is an
invaluable learning
tool for the
engineering students
of electronics and
communication.

New to This Edition

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- Important design equations have been listed separately. •

Three new chapters—Reliability requirements in satellites, Remote sensing satellites and Error control coding—have been included. • New Sections are added in

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Chapters 1, 2 and 3.

- A brief discussion on digitized video transmission is

included in Chapter 4.

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nk & interference & F
DMA, TDMA, and
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latest advancements
in the field. The
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with an introductory
chapter that
familiarises the
readers with the
evolution of satellite

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communication. The following chapters expatiate on orbital mechanics,

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configure a complete satellite system, are focused. The book further explicates the link calculation to facilitate the design aspect. In addition, satellite access mechanism, and Internet linking via satellite are also outlined in the text.

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of the book elaborate

navigation satellite,
direct broadcasting
satellite television,
VSAT and special
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treatment of the

subject, and enables

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presentation of every

topic is kept simple

and systematic to

help students

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some additional
relevant information
are appended to
most of the chapters.
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include ample figures and tables, summary and review questions at the end of each chapter.

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authors – noted

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