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This book has been written for

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***an eclectic audience of winery
developers (owners),
winemakers with utility
responsibilities (real or
implied), winery design
professionals (architects and
engineers), and university-***

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level enology professors, all of whom at sometime in their careers must address the subject of winery site utilities as a distinct and important element of their jobs. Wine and other fermented

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beverages in one form or another are produced commercially in almost all temperate zones of the world. Utility requirements for wineries, which use grapes as the fermentable sugar source,

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***are the focus of this reference
book, although similarities in
fundamental production
processes for other
subdivisions of the fermented
beverage industry may find
useful reference information in***

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***the chapters which follow.
Wine production methods may
differ somewhat from country
to country, but the sizing,
need for reliability, ease of
operation, and cost-effectiveness
of water, wastewater,***

electrical, fire protection, and other support systems remain nearly universally constant. Of necessity, the author's past planning and design experience with nearly 60 winery utility systems, will xi

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***xii Preface emphasize
contemporary design
fundamentals related to the
U.S. wine industry. However,
where possible, opportunities
will be taken to relate
American practice to, for***

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***example, European,
Australian, and South American wine industries where discrete differences in utility systems have been observed by the author or discovered in the literature research that***

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was part of the production effort for this volume.

Mineral Processing Design and Operations is expected to be of use to the design engineers engaged in the design and operation of mineral

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***processing plants and
including those process
engineers who are engaged in
flow-sheets development.
Provides an orthodox
statistical approach that helps
in the understanding of the***

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***designing of unit processes.
The subject of mineral
processing has been treated
on the basis of unit processes
that are subsequently
developed and integrated to
form a complete strategy for***

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mineral beneficiation. Unit processes of crushing, grinding, solid-liquid separation, flotation are therefore described in some detail so that a student at graduate level and operators

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***at plants will find this book
useful. Mineral Processing
Design and Operations
describes the strategy of
mathematical modeling as a
tool for more effective
controlling of operations,***

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***looking at both steady state
and dynamic state models. *
Containing 18 chapters that
have several worked out
examples to clarify process
operations * Filling a gap in
the market by providing up-to-***

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***date research on mineral
processing * Describes
alternative approaches to
design calculation, using
example calculations and
problem exercises
The batch distillation process***

has existed for many centuries. It is perhaps the oldest technology for separating or purifying liquid mixtures and is the most frequently used separation method in batch processes. In

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***the last 25 years, with
continuous development of
faster computers and
sophisticated numerical
methods, there have been
many published works using
detailed mathematical models***

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***with rigorous physical
property calculations and
advanced optimisation
techniques to address several
important issues, such as
selection of column
configurations, design,***

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***operation, off-cut recycling,
use of batch distillation in
reactive and extractive modes,
etc. Batch Distillation: Design
and Operation presents
excellent, important
contributions of many***

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researchers from around the globe, including those of the author and his co-workers./a Every customer-facing corporation has at least one call center. In the United States, call centers handle a

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***billion calls per year. Call
Center Operation gives you
complete coverage of the
critical issues involved in the
design, implementation,
organization, and management
of a customer call center.***

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Sharp provides information on advanced technology tools for workforce management, workshop examples for training call center staff, and an analysis of the significance of the call center to overall

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***corporate customer
relationship strategies. A
special feature of the book is
its focus on call center case
studies, describing a number
of successful call center
strategies and best practices,***

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selected from various business sectors - financial, retail, healthcare, travel, technology, and others. These case studies provide useful guidelines based on successful corporate call centers that will guide you

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***in establishing and
maintaining the most effective
call center operation for your
enterprise. · Presents key
concepts and techniques,
including a formal
development process, in a real-***

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***world context · Provides
extensive management
guidelines · Stresses the
importance of staff selection
and training
Plant Design and Operations
Mineral Processing Design and***

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Operation

Planning, Design, Construction

and Operation of the

Underground Space

Design and Operation of

Production Systems

Railway Engineering Design &

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Operation

***Technology, Design and
Operation***

**Batch distillation process has
existed for many centuries. It
is perhaps the oldest
technology for separating or**

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**purifying liquid mixtures and
is the most frequently used
separation method in batch
processes. In the last 25 years,
with continuous development
of faster computers and
sophisticated numerical**

methods, there have been many published work to address several important issues such as selection of column configurations, design, operation, off-cut recycle, use of batch

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distillation in reactive and extractive mode, etc. using detailed mathematical models with rigorous physical property calculations and advanced optimisation techniques. Batch Distillation:

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Design and Operation
presents excellent and
important contributions of
many researchers from around
the globe and those of the
author and his co-workers.
Production development is

**about improving existing
production systems and
developing new ones. The
production system should be
developed in integration with
the product, as a part of the
overall product realization**

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**process, and not in sequence
after the product has already
been designed. Production
Development: Design and
Operation of Production
Systems takes a holistic
viewpoint on the production**

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system and its design process during the whole system life cycle. A working procedure demonstrating how to design and realize the production system is presented, together with a number of related

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**production development
aspects. Production
Development: Design and
Operation of Production
Systems is illustrated with a
large number of figures and
industrial examples. The book**

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**can be used as a reference for
teachers and students, or as a
manual for professionals
within the field of production.
Design and Operation of heat
Exchangers and Their
Networks presents a**

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**comprehensive and detailed
analysis on the thermal design
methods for the most common
types of heat exchangers, with
a focus on their networks,
simulation procedures for
their operations, and**

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measurement of their thermal performances. The book addresses the fundamental theories and principles of heat transfer performance of heat exchangers and their applications and then applies

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**them to the use of modern
computing technology. Topics
discussed include cell
methods for condensers and
evaporators, dispersion
models for heat exchangers,
experimental methods for the**

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evaluation of heat exchanger performance, and thermal calculation algorithms for multi-stream heat exchangers and heat exchanger networks. Includes MATLAB codes to illustrate how the technologies

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**and methods discussed can
be easily applied and
developed. Analyses a range
of different models,
applications, and case studies
in order to reveal more
advanced solutions for**

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industrial applications.

**Maintains a strong focus on
the fundamental theories and
principles of the heat transfer
performance of heat
exchangers and their
applications for complex flow**

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arrangement.

Around the world concerns about cost, efficiency, and safety - employee, product, process and consumer -- have led to changes in the way food plants are planned,

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**constructed and evaluated.
From initiation of major capital
requests to legal design
requirements to project
management and plant
operations, food engineers
and scientists must**

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understand the myriad of requirements and responsibilities of successful food facilities. J. Peter Clark provides that guidance in this complete volume. Included are: A summary of lessons on

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**understanding how
management evaluates
potential investments and how
they can contribute to ultimate
shareholder value, and
checklists to help accurately
estimate capital and operating**

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costs important, and in some cases unique, features of a food plant including focus on food safety. Addresses not only consumer products, but ingredients for consumer products and the concerns of

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**distribution and flexibility that
must be considered. Also
considered are the support
facilities that are equally
essential to the safe
production of food An
effective approach to**

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**understanding production
lines and optimizing
operations during expansion
by briefly introducing
Goldratt's Theory of
Constraints. The book
explores the challenges of**

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**construction while maintaining
safe and sanitary operations
An approach and methodology
that can be extended beyond
the case studies presented in
order to effectively plan
development processes and**

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**make correct equipment
selections Project
management and plant
operations guidance to assist
engineers who find
themselves in the role of
managing a design or**

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**construction process project,
or of supervising a portion of a
plant. Includes suggestions
for effectively troubleshooting
an unsatisfactory operation
Provides real-world insights
including guides for proper**

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**project estimation,
understanding the role and
importance of support
facilities, maintaining
standards while under
construction and other vital
considerations Includes**

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**checklists and proven
approaches to guide the
reader through the wide range
of necessary planning and
implementation steps
Considers factors for both new
plant construction and**

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expansion of existing plants
Practical Design, Construction
and Operation of Food
Facilities
Wastewater Treatment Plants
Underground Engineering
Design and Operation of

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Smallholder Agriculture in
South Asia**

**Human Factors for Naval
Marine Vehicle Design and
Operation**

Airport Design and Operation

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*Covers two species
Penaeus monodon and
Penaeus vannamei. It is
organized into three
main parts (Design,
Operation, and
Training). The design*

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part focuses on two hatcheries and gives detailed plans of their construction as well as other options. The operation portion of the manual details the

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*procedures for most
efficient operation of a
specific hatchery. This
manual consists of
compiled, presently
known information
important for training*

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*new personnel. Contains
enough detail to provide
the newcomer with
knowledge to run a
hatchery and provides
details to assist the
experienced hatchery*

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manager. *Illustrated.*

*"Safer Beaches:
Planning, Design, and
Operation" offers a
systematic approach to
planning, designing,
renovating, and*

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*operating all types of
beaches. It provides
practices in beach
management and
protection and uses a
needs-analysis approach
to help you identify*

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*programming and
activities that will
maximize people's
experience at the beach.
This edition provides a
systematic presentation
of the main concepts*

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*referring to the
electrical systems
planning and operation,
with the particularly
interesting inclusion of
many practical data,
frequent reference to*

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the IEC standards, and a detached view on the main approaches used in practice. The selection of the material makes it possible for the operator to retrieve in

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*the book both concepts
and indications on the
applications, without
needing to take a look
at many manufacturer's
data or huge handbooks.
Describing in detail how*

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*electrical power systems
are planned and
designed, this book
illustrates the required
structures of systems,
substations and
equipment using*

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*international standards
and latest computer
methods. This book
discusses both the
advantages and
disadvantages of the
different arrangements*

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*within switchyards and
of the topologies of the
power systems,
describing methods to
determine the main
design parameters of
cables, overhead lines,*

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*and transformers needed
to realize the supply
task, as well as the
influence of
environmental conditions
on the design and the
permissible loading of*

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the equipment.

*Additionally, general
requirements for
protection schemes and
the main schemes related
to the various
protection tasks are*

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given.

*Plant Design and
Operations provides
practical guidance on
the design, operation,
and maintenance of
process facilities. The*

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*book is based on years
of hands-on experience
gathered during the
design and operation of
a wide range of
facilities in many
different types of*

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*industry including
chemicals, refining,
offshore oil and gas,
and pipelines. The book
helps managers,
engineers, operators,
and maintenance*

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*specialists with advice
and guidance that can be
used right away in
working situations. Each
chapter provides
information and guidance
that can be used*

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*immediately. For
example, the chapter on
Energy Control
Procedures describes
seven levels of positive
isolation – ranging from
a closed block valve all*

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*the way to double block
and bleed with line
break. The Safety in
Design chapter describes
topics such as area
classification, fire
protection, stairways*

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and platforms, fixed ladders, emergency showers, lighting, and alarms. Other areas covered in detail by the book include security, equipment, and

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*transportation. A
logical, practical guide
to maintenance task
organization is
provided, from
conducting a Job Hazards
Analysis to the issue of*

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*a work permit, and to
the shutdown and
isolation of equipment.
Common hazards are
covered in detail,
including flow problems,
high pressure,*

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*corrosion, power
failure, and many more.
Provides information to
managers, engineers,
operators and
maintenance personnel
which is immediately*

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*applicable to their
operations Supported by
useful, real-world
examples and experience
from a wide range of
facilities and
industries Includes*

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*guidance on occupational
health and safety,
industrial hygiene and
personal protective
equipment*

*Building Performance
Simulation for Design*

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and Operation

*Planning, Design and
Operation*

*Energy Systems Design
and Operation: A Unified
Method*

Planning, Design, and

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Operation

*Design and Operation of
Solid Oxide Fuel Cells
Design and Operation*

This professional guide presents best practices for park and recreation professionals and others interested in

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creating a community dog park. From concept to completion, you'll get step-by-step instructions on creating a great off-leash facility. It also discusses related topics such as location considerations, community benefits, design options, maintenance concerns, amenities, suggested rules,

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and program opportunities.

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knowledge base needed to facilitate effective launch-site and operations safety in line with current regulations. With information on space operations safety design currently disparate and difficult to find in one place, this unique reference brings together essential material on: Best design practices

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relating to space operations, such as the design of spaceport facilities.

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considerations relating to the general public and the environment in addition to personnel and asset protection.

Taking in launch operations safety relating unmanned missions, such as the launch of probes and commercial satellites, as well as manned missions, Safety Design for Space Operations

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Space Safety (IAASS), with contributions from leading experts at NASA, the European Space Agency (EASA) and the US Federal Aviation Administration (FAA), amongst others
Covers all aspects of space operations relating to safety of the general public, as well as the protection of valuable

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assets and the environment Focuses on launch operations safety relating to manned and unmanned missions, such as the launch of probes and commercial satellites

Thermal Power Plant: Design and Operation deals with various aspects of a thermal power plant, providing a

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new dimension to the subject, with focus on operating practices and troubleshooting, as well as technology and design. Its author has a 40-long association with thermal power plants in design as well as field engineering, sharing his experience with professional engineers under various

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training capacities, such as training programs for graduate engineers and operating personnel. Thermal Power Plant presents practical content on coal-, gas-, oil-, peat- and biomass-fueled thermal power plants, with chapters in steam power plant systems, start up and shut down, and

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interlock and protection. Its practical approach is ideal for engineering professionals. Focuses exclusively on thermal power, addressing some new frontiers specific to thermal plants
Presents both technology and design aspects of thermal power plants, with special treatment on plant operating

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practices and troubleshooting

Features a practical approach ideal for professionals, but can also be used to complement undergraduate and graduate studies

Originating from presentations at the 17th International Conference on Railway Engineering Design and

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Operation, this volume contains selected research works on the topic. It is important to continue to update the use of advanced systems by promoting general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight

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and transit systems. The included papers help to facilitate this goal and place a key focus on the applications of computer systems in advanced railway engineering. These research studies will be of interest to all those involved in the development of railways, including managers,

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consultants, railway engineers,
designers of advanced train control
systems and computer specialists.

Call Center Operation

Thermal Power Plant

Sanitary Landfill Design and Operation

Safer Beaches

Compact Heat Exchangers

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The Design and Operation of Sawmills
and Planer Mills

Design and Operation of Solid Oxide
Fuel Cells: The Systems Engineering
Vision for Industrial Application
presents a comprehensive, critical
and accessible review of the latest

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research in the field of solid oxide fuel cells (SOFCs). As well as discussing the theoretical aspects of the field, the book explores a diverse range of power applications, such as hybrid power plants, polygeneration, distributed electricity generation,

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energy storage and waste management—all with a focus on modeling and computational skills. Dr. Sharifzadeh presents the associated risks and limitations throughout the discussion, providing a very complete and thorough

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analysis of SOFCs and their control and operation in power plants. The first of its kind, this book will be of particular interest to energy engineers, industry experts and academic researchers in the energy, power and transportation industries,

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as well as those working and researching in the chemical, environmental and material sectors. Closes the gap between various power engineering disciplines by considering a diverse variety of applications and sectors Presents and

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reviews a variety of modeling techniques and considers regulations throughout Includes CFD modeling examples and process simulation and optimization programming guidance In this third edition the chapters have been enhanced to reflect

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changes in technology and the way the air transport industry runs. Key topics that are newly addressed include low cost airline operations, security issues and EASA regulations on airports. A new chapter covering extended details

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about wildlife control has been added to the volume.

Now, this comprehensive and systematic overview of both the design models and quantitative solution methods for FMS support, configuration, and operation

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rectifies that problem. Students, production managers/planners, and FMS installation planners can now find everything they need in one authoritative and up-to-date source.

Design and Operation of
Locomotion Systems examines

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recent advances in locomotion systems with multidisciplinary viewpoints, including mechanical design, biomechanics, control and computer science. In particular, the book addresses the specifications and requirements needed to achieve

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the proper design of locomotion systems. The book provides insights on the gait analysis of humans by considering image capture systems. It also studies human locomotion from a rehabilitation viewpoint and outlines the design and operation of

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exoskeletons, both for rehabilitation and human performance enhancement tasks. Additionally, the book content ranges from fundamental theory and mathematical formulations, to practical implementations and

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experimental testing procedures.

Written and contributed by leading experts in robotics and locomotion systems Addresses humanoid locomotion from both design and control viewpoints Discusses the design and control of multi-legged

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locomotion systems

Design and Operation of Farm
Irrigation Systems

Batch Distillation: Design And
Operation

Power System Engineering

Safety Design for Space Operations

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Design, Operation and Novel
Applications

Flexible Manufacturing Systems

There is a driving need for
naval professionals to focus
on human factors issues. The
number of maritime accidents

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is increasing and the chief cause is human error, both by the designer and the operator. Decreasing crew size, lack of experienced operators, operations in higher sea states and fatigue worsen the

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situation. Automation can be a partial solution, but flawed automated systems actually contribute to accidents at sea. Up to now, there has been no overarching resource available to naval marine

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vehicle designers and human factors professionals which bridges the gap between the human and the machine in this context. Designers understand the marine vehicle; human factors professionals understand how

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a particular environment affects people. Yet neither has a practical understanding of the other's field, and thus communicating requirements and solutions is difficult. This book integrates

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knowledge from numerous sources as well as the advice of a panel of eight recognized experts in the fields of related research, development and operation. The result is a reference that bridges the

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communications gap, and stands to help enhance the design and operation of all naval marine vehicles.

Completely up-to-date coverage of water treatment facility design and operation This Second

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Edition of Susumu Kawamura's landmark volume offers comprehensive coverage of water treatment facility design, from the basic principles to the latest innovations. It covers a broad spectrum of water

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treatment process designs in detail and offers clear guidelines on how to choose the unit, process, and equipment that will maximize overall efficiency and minimize maintenance costs. This book also explores many

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important operational issues that affect today's plant operators and facility designers. This new edition introduces several new subjects, including value engineering, watershed management, dissolved air

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flotation process, filtered
reservoir (clearwell)
design, and electrical
system design. It provides
expanded and updated
coverage of objectives
for finished water quality,
instrumentation and control,

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disinfection process, ozonation, disinfection by-product control, the GAC process, and the membrane filtration process. Other important features of this Second Edition include: *

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treatment plant component *
New information on plant
layout, cost estimation,
sedimentation issues, and
more * English and SI units
throughout * Help in
designing for compliance

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with water treatment-
related government
regulations Supplemented
with hundreds of
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tables, Integrated Design and
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an indispensable, hands-on resource for civil engineers and managers, whether working on new facilities or redesigning and rebuilding existing facilities.

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handy tool for the design and operation of cement plants. Operation requires many calculations that have to be done repetitively.

With this book of nomograms – graphical representations of two or more variables

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related to one another in such a way that a third one can be read from the nomogram - these workouts can be eliminated and the right values can be found with minimum effort with the user-friendly CD-ROM. The CD-

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ROM pdf pages represent the nomogram and explanatory text in a single screen. The text describes the use, input, output, scale and unit of the nomogram, plus an illustrative example. When clicking on the

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nomogram, it appears in its original AutoCad version, which allows the reader to draw lines to obtain the results of new inputs. Most nomograms are single-step graphics, some require of two or three progressive

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steps. The nomograms are grouped in four sections: 1. Basics (capacities and rates of overall cement plant; crushing, grinding; feed rates in various sections with necessary margins; quality calculations, such

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as the proportioning of raw materials and for arriving at related parameters; carbonates, oxides and ratios of raw meal to clinker); 2. Physical (temperatures, altitudes, atmospheric pressures and

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densities; areas and volumes
; volumes of silos and stock
piles; half angle at centre
of mills and kilns and
related variables; aspects
of system design); 3.
Processes (calculations
related to calorific values

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of fuel and its consumption,
combustion and drying; log
mean temperature difference;
heat content of air,
clinker, calculations
related to cooling), and 4.
Machinery (ball mill design,
vertical roller mills,

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preheater design, fuel fired
in calciner, kiln capacity
impact, kiln sizing and
design, conventional clinker
coolers, pneumatic
conveying, mechanical
conveyors, bag filter
sizing, SCAs or ESPs for

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different efficiencies).

This book presents the ideas and industrial concepts in compact heat exchanger technology that have been developed in the last 10 years or so. Historically, the development and

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application of compact heat exchangers and their surfaces has taken place in a piecemeal fashion in a number of rather unrelated areas, principally those of the automotive and prime mover, aerospace, cryogenic

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and refrigeration sectors.

Much detailed technology,
familiar in one sector,
progressed only slowly over
the boundary into another
sector. This
compartmentalisation was a
feature both of the user

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industries themselves, and also of the supplier, or manufacturing industries.

These barriers are now breaking down, with valuable cross-fertilisation taking place. One of the industrial sectors that is waking up to

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the challenges of compact heat exchangers is that broadly defined as the process sector. If there is a bias in the book, it is towards this sector. Here, in many cases, the technical challenges are severe, since

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high pressures and temperatures are often involved, and working fluids can be corrosive, reactive or toxic. The opportunities, however, are correspondingly high, since compacts can offer a combination of lower

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capital or installed cost, lower temperature differences (and hence running costs), and lower inventory. In some cases they give the opportunity for a radical re-think of the process design, by the

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introduction of process intensification (PI) concepts such as combining process elements in one unit. An example of this is reaction and heat exchange, which offers, among other advantages, significantly

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lower by-product production. To stimulate future research, the author includes coverage of hitherto neglected approaches, such as that of the Second Law (of Thermodynamics), pioneered

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by Bejan and co-workers.
The justification for this
is that there is increasing
interest in life-cycle and
sustainable approaches to
industrial activity as a
whole, often involving
exergy (Second Law)

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analysis. Heat exchangers, being fundamental components of energy and process systems, are both savers and spenders of exergy, according to interpretation.

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Operation of Power Systems

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Operation of Cement Plants
Lumber Manufacturing
Integrated Design and
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*In this expert handbook both
the topics and contributors
are selected so as to provide
an authoritative view of
possible applications for this*

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new technology. The result is an up-to-date survey of current challenges and opportunities in the design and operation of bioreactors for high-value products in the biomedical and chemical

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industries. Combining theory and practice, the authors explain such leading-edge technologies as single-use bioreactors, bioreactor simulators, and soft sensor monitoring, and discuss

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novel applications, such as stem cell production, process development, and multi-product reactors, using case studies from academia as well as from industry. A final section

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*addresses the latest trends,
including culture media
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*Petrochemical Processes:
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topic, the book highlights the application of these methods on petrochemical technology such as the aromatics process unit. The authors describe practical approaches and tools that

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*focus on improving
industrial energy efficiency,
reducing capital investment,
and optimizing yields
through better design,
operation, and optimization.
The text is divided into*

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*sections that cover the
range of essential topics:
petrochemical technology
description; process design
considerations; reaction and
separation design; process
integration; process system*

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book: Provides the basic*

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improve process design and*

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and discusses in detail catalytic and adsorbent materials, reaction and separation mechanisms. Machines increasingly pervade the mining industry, reducing manual labor and

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*has the potential for new
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such as vibration, noise, heat, and dust in maintaining and operating mining equipment. The authors expand their scope by examining wider organizational and task

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The storage yard is the operational and geographical centre of most seaport container terminals. Therefore, it is of particular importance for the whole terminal system and plays a major role for trade and

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transport flows. One of the latest trends in container-storage operations is the automated Rail-Mounted-Gantry-Crane system, which offers dense stacking, and offers low labour costs. This book

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investigates whether the operational performance of container terminals is influenced by the design of these storage systems and to what extent the performance is affected by the terminal's

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framework conditions, and discusses the strategies applied for container stacking and crane scheduling. A detailed simulation model is presented to compare the performance effects of alternative storage

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designs, innovative planning strategies, and other influencing factors. The results have useful implications future research, practical terminal planning and optimisation.

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Production Networks for Mass Personalization in the Era of Cloud Technology draws on the latest industry advances to provide everything needed for the effective implementation of this powerful tool. Shorter

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product lifecycles have increased pressure on manufacturers through the increasing variety and complexity of production, challenging their workforce to remain competitive and

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profitable. This has led to innovation in production network methodologies, which together with opportunities provided by new digital technologies has fed a rapid evolution of production

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engineering that has opened new solutions to the challenges of mass personalization and market uncertainty. In addition to the latest developments in cloud technology, reference is made to key enabling

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technologies, including artificial intelligence, the digital twin, big data analytics, and the internet of things (IoT) to help users integrate the cloud approach with a fully digitalized production system. Presents

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diverse cases that show how cloud-based technologies can be used in different ways as part of the standard operation of global production networks Provides detailed reviews of new technologies like the digital

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twin, big data analytics, and blockchain to provide context on the role of cloud technologies in a fully digitalized system Explores future trends for cloud technology and production

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When used appropriately,
building performance
simulation has the potential to
reduce the environmental
impact of the built environment,
to improve indoor quality and

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productivity, as well as to facilitate future innovation and technological progress in construction. Since publication of the first edition of Building Performance Simulation for Design and Operation, the

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discussion has shifted from a focus on software features to a new agenda, which centres on the effectiveness of building performance simulation in building life cycle processes. This new edition provides a

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performance simulation for the
complete building life cycle
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reuse * Biosolids disposal and
reuse * On-site treatment and
disposal of small flows *

Wastewater treatment plants
should be designed so that the
effluent standards and reuse

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objectives, and biosolids regulations can be met with reasonable ease and cost. The design should incorporate flexibility for dealing with seasonal changes, as well as long-term changes in wastewater quality and future

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regulations. Good planning and design, therefore, must be based on five major steps:
characterization of the raw wastewater quality and effluent, pre-design studies to develop alternative processes and selection

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of final process train, detailed design of the selected alternative, contraction, and operation and maintenance of the completed facility. Engineers, scientists, and financial analysts must utilize principles from a wide range of

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disciplines: engineering, chemistry, microbiology, geology, architecture, and economics to carry out the responsibilities of designing a wastewater treatment plant. The objective of this book is to present the technical and nontechnical

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issues that are most commonly addressed in the planning and design reports for wastewater treatment facilities prepared by practicing engineers. Topics discussed include facility planning, process description, process

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selection logic, mass balance calculations, design calculations, and concepts for equipment sizing. Theory, design, operation and maintenance, trouble shooting, equipment selection and specifications are integrated for

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each treatment process. Thus delineation of such information for use by students and practicing engineers is the main purpose of this book.

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