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Handbook Of  
Liquefied Natural  
Gas

*Handbook  
Of  
Liquefied  
Natural  
Gas*

***This Handbook  
examines the  
subject of  
energy***

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***security: its  
definition,  
dimensions,  
ways to  
measure and  
index it, and  
the  
complicating  
factors that  
are often  
overlooked.  
The volume***

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***identifies  
varying  
definitions and  
dimensions of  
energy  
security,  
including  
those that  
prioritize  
security of  
supply and  
affordability***

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***alongside  
those that  
emphasize  
availability,  
energy  
efficiency,  
trade,  
environmental  
quality, and  
social and  
political  
stewardship. It***

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***also explores  
the various  
metrics that  
can be used to  
give energy  
security more  
coherence,  
and also to  
enable it to be  
measured,  
including  
recent***

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***attempts to  
measure  
energy  
security  
progress at  
the national  
level, with a  
special  
emphasis  
placed on  
countries  
within the***

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**Organization  
of Economic  
Cooperation  
and  
Development  
(OECD),  
countries  
within Asia,  
and  
industrialized  
countries  
worldwide.**

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***This***

***Handbook: •***

***Broadens***

***existing***

***discussions of***

***energy***

***security that***

***center on***

***access to***

***fuels,***

***including "oil***

***security" and***



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**"coal  
security."** •

***Focuses not  
only on the  
supply side of  
energy but  
also the  
demand,  
taking a hard  
look at energy  
services and  
politics along***

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***with  
technologies  
and  
infrastructure;  
• Investigates  
energy  
security issues  
such as  
energy  
poverty,  
equity and  
access, and***

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**development;**  
Gas

• **Analyzes  
ways to index  
and measure  
energy  
security  
progress at  
the national  
and  
international  
level. This  
book will be of**

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***much interest  
to students of  
energy  
security,  
energy policy,  
economics,  
environmental  
studies, and  
IR/Security  
Studies in  
general.  
Handbook of***

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**Natural Gas  
Transmission  
and  
Processing  
gives  
engineers and  
managers  
complete  
coverage of  
natural gas  
transmission  
and**

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***processing in  
the most  
rapidly  
growing sector  
to the  
petroleum  
industry. The  
authors  
provide a  
unique  
discussion of  
new***

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**technologies  
that are  
energy  
efficient and e  
nvironmentall  
y appealing at  
the same time.  
It is an  
invaluable  
reference on  
natural gas  
engineering**

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***and the latest techniques for all engineers and managers moving to natural gas processing as well as those currently working on natural gas projects.***



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practicing  
engineers  
critical  
information on  
all aspects of  
gas gathering,  
processing  
and  
transmission  
First book that  
treats***

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***multiphase  
flow  
transmission  
in great detail  
Examines  
natural gas  
energy costs  
and pricing  
with the aim  
of delivering  
on the goals of  
efficiency,***

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***quality and  
profit***

***Liquefied  
natural gas  
(LNG) is a  
commercially  
attractive  
phase of the  
commodity  
that facilitates  
the efficient  
handling and***

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**transportation  
of natural gas  
around the  
world. The  
LNG industry,  
using  
technologies  
proven over  
decades of  
development,  
continues to  
expand its**

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**markets,  
diversify its  
supply chains  
and increase  
its share of  
the global  
natural gas  
trade. The  
Handbook of  
Liquefied  
Natural Gas is  
a timely book**

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***as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore***

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**Infrastructure  
to develop and  
handle  
resources in  
more remote  
and harsher  
environments.  
It is the only  
book of its  
kind, covering  
the many  
aspects of the**

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***LNG supply  
chain from  
liquefaction to  
regasification  
by addressing  
the LNG  
industries'  
fundamentals  
and markets,  
as well as  
detailed  
engineering***



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***and design principles. A unique, well-documented, and forward-thinking work, this reference book provides an ideal platform for scientists, engineers, and***

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***other  
professionals  
involved in the  
LNG industry  
to gain a  
better  
understanding  
of the key  
basic and  
advanced  
topics relevant  
to LNG***

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***projects in  
operation  
and/or in  
planning and  
development.  
Highlights the  
developments  
in the natural  
gas  
liquefaction  
industries and  
the challenges***

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***in meeting  
environmental  
regulations  
Provides  
guidelines in  
utilizing the  
full potential  
of LNG assets  
Offers advices  
on LNG plant  
design and  
operation***

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***based on  
proven  
practices and  
design  
experience  
Emphasizes  
technology  
selection and  
innovation  
with focus on  
a “fit-for-  
purpose***

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***design***

***Updates code  
and***

***regulation,  
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***requirements  
for LNG***

***applications***

***Natural Gas: A  
Basic***

***Handbook,***

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composition.**

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production of  
natural gas  
from  
traditional and  
unconventiona  
l sources, the  
downstream**

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***aspects of the  
natural gas  
industry.  
including  
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, and  
environmental  
issues and  
emission  
controls***

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gas, for  
advisors and  
consultants in  
the natural  
gas industry,***

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***and for  
technical  
readers  
interested in  
learning more  
about this  
clean burning  
fuel source  
and how it is  
shaping the  
energy  
industry.***

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processing, and  
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important Exonomic,  
Political and  
Technological  
factors, inter alia, the  
growing global

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demand for energy,  
the ongoing  
deregulation of gas  
and electricity  
markets, a  
preference for  
natural gas as the  
cleanest of all  
hydrocarbons, and  
the decline in the  
cost of producing  
and shipping

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or specific  
engineering  
information  
requirement in  
regard to natural,  
liquefied petroleum,  
and manufactured  
gases. It presents in  
concise, orderly  
fashion all  
"working" facts and

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volume and 125  
chapters all  
conceivable  
engineering methods  
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makes the Handbook  
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Natural Gas

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considered the  
dominant  
worldwide bridge***

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***between fossil  
fuels of today  
and future  
resources of  
tomorrow.  
Thanks to the  
recent shale  
boom in North  
America, natural  
gas is in a  
surplus and  
quickly becoming***

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now  
unconventional  
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and procedures  
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***background on  
natural gas  
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single/multiphase  
flow factors How  
to pinpoint  
equipment  
selection criteria,  
such as US and  
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***students, it can  
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technologies in  
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and  
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the field, in-  
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and industry  
experts and  
covers the  
various stages  
of a gas  
pricing***



***dispute, from drafting the clause to triggering a review, all the way through the various stages of the arbitral process. It also builds on the first edition by***

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***containing  
insights into  
more  
substantive  
topics such as  
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indexation, the  
impact on  
pricing of non-  
price terms  
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the differences  
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and LNG price  
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***The demand  
for natural gas  
rises annually,  
straining  
existing  
suppliers, and  
emerging***

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**markets often  
aren't  
accessible by  
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examples is  
the clear  
presentation  
of LNG as the  
most viable**

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**conservative**  
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**internationally**  
**will double by**  
**2020, and**  
**billions of**  
**dollars will be**

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***needed for the  
infrastructure  
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***explanation of  
a complex  
industry***

***proves that***

***LNG can***

***deliver a***

***critical link in***

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***the energy demands of international economies. With a proven track record of safety and reliability, the LNG industry stands ready to bridge the international***

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supply and  
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Readers will  
realize the  
complexity of  
this industry,  
which involves  
an intricate  
link of critical***



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***companies,  
governments  
and stand-  
alone  
facilities.***

***The  
petrochemical  
industry is a  
scientific and  
engineering  
field that  
encompasses***

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***the production  
of a wide  
range of  
chemicals and  
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purpose of this  
book is not  
only to provide  
a follow-on to  
form the later  
chapters of the  
highly***

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approach to a  
very diverse  
chemical  
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***technology of  
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and polymer***

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insights into  
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synthesis  
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intermediates  
are generally  
produced by  
chemical  
conversion of***

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**primary  
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s to form more  
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derivative  
products The  
reactions and  
processes  
involved in  
transforming p  
etroleum-  
based**



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into the  
chemicals that  
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of the multi-  
billion dollar  
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s Includes a  
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s industry -  
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industry  
Presents in  
concise,  
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on fuel gases  
needed by  
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methods and  
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of the entire  
gas industry,  
from source to  
burner.***

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illustrations  
clarify and  
illuminate a  
text that is  
crammed with  
the kind of  
information  
that is  
virtually  
unobtainable  
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Fuel for a  
Changing  
World—A***

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fuel and offers  
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uses everyday  
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provides the  
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technological  
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way through the  
various stages of  
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various  
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detailed  
information on  
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its constituents  
Offers an analysis  
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hydrates, ethane,  
propane, butane,  
and gas  
condensate  
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information on  
the behavior of  
natural gas to aid  
in the planning  
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and use Covers  
the test methods  
that are  
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natural gas and  
its constituents

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Written in accessible and easy-to-understand terms Written for scientists, engineers, analytical chemists who work with natural gas as well as other scientists and engineers in the industry,



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aid in the  
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Europe, China, and South and East Asia, which are the areas of highest-expected demand, the projected consumption of gas is expected to far outstrip indigenous supplies.

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from the world's major reserves to the future demand centres will require a major expansion of inter-regional, cross-border gas transport infrastructures. This book investigates the implications of

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this shift,  
utilizing  
historical case  
studies as well as  
advanced  
economic  
modelling to  
examine the  
interplay  
between  
economic and  
political factors  
in the

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development of natural gas resources. The contributors aim to shed light on the political challenges which may accompany a shift to a gas-fed world.

"Liquefied natural gas (LNG) is a

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commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world. The LNG industry, using technologies proven over

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book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources

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in more remote  
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extends from  
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gas pipelines and  
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users. LNG  
production is  
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deterred the  
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and any future  
LNG production  
plant owners  
must reevaluate  
the current  
technologies for a  
-fit-for-purpose""  
design to reduce  
the life cycle  
costs."

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This book highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations. It provides guidelines in utilizing the full potential of LNG assets and offers advice on LNG plant design and operation. The book emphasizes technology selection and

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Gas  
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and regulation, safety,  
and security  
requirements for LNG  
applications.

ÔProfessor SakmarÕs  
book is a must-read for  
anyone interested in  
gaining a better  
understanding of the  
most dynamic segment  
of the global energy



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Executive Director,  
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Sakmar Ôs book

provides a well-rounded  
overview of the global  
role that natural gas is  
expected to play in the  
future and the important  
role of LNG as a means  
of transporting gas to  
where it is needed.

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convenient compendium  
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important educational,  
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what trends define them  
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technological directions.  
Susan Sakmar's  
impressive ability to  
provide this context in  
terms of LNG markets  
makes her book  
valuable. It Warren R.  
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With clear and direct text, supplemented with key maps, charts and graphics from government, industry and other sources, the book moves the reader smoothly through the early history of LNG up to current developments, including shale gas and North American LNG exports. The book is a

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valuable resource for anyone interested in understanding global gas markets and the energy policy challenges facing us in the 21st century.Ö

Ð Jacqueline L. Weaver,  
A.A. White Professor of  
Law, University of  
Houston Law Center,  
US Countries around the  
world are increasingly  
looking to liquefied  
natural gas (LNG) Ð

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natural gas that has been cooled until it forms a transportable liquid to meet growing energy demand. Energy for the 21st Century provides critical insights into the opportunities and challenges LNG faces, including its potential role in a carbon-constrained world. This comprehensive study covers topics such as the

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LNG value chain, the historical background and evolution of global LNG markets, trading and contracts, and an analysis of the various legal, policy, safety and environmental issues pertaining to this important fuel.

Additionally, the author discusses emerging issues and technologies that may impact global

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LNG markets, such as the development of shale gas, the prospects of North American LNG exports, the potential role of the Gas Exporting Countries Forum and floating LNG. The author contextualizes the discussion about the importance of LNG with an analysis of why the 21st century will be the



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cities and at the same time reducing congestion and pollution related to goods transport in urban areas. Recently, humanitarian, emergency, and crises logistics has been a subject of increasing interest, often seen from an international viewpoint. However, some of the recent natural crises have

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shown the importance of resilience and reliability of the current urban logistics systems. The Handbook of Research on Urban and Humanitarian Logistics is a critical scholarly publication that addresses urban logistics and resilience, sustainable urban logistics, humanitarian logistics in urban areas

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both for crisis or long-term, and planning for resilient urban development. Featuring a broad range of topics that discuss the new and future trends in urban logistics and resilient cities, this publication is ideal for public planners; urban planners; company managers in logistics and transport; consulting agencies;

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information from  
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proceedings, and  
experts to

accurately

depict the state  
of gas

processing

technology today

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technologies

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become important  
in the future.

This book covers  
Liquefied  
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(LNG) is a  
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attractive phase  
of the commodity  
that facilitates  
the efficient  
handling and  
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around the world. The LNG industry, using technologies proven over decades of development, continues to expand its markets, diversify its supply chains and increase its share of the

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global natural gas trade. The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to

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chain from  
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regasification  
by addressing  
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industries and  
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selection and  
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code and  
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requirements for  
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Can hydrogen and  
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well as a  
reference for  
energy and  
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engineers and  
scientists.

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**Addressing the  
questions that  
have arisen since  
the publication of**

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**the second edition,  
this volume  
explores topics  
such as the  
implications of the  
concept of vehicle  
and fuel as a single  
system, fuel's  
contribution to  
emissions control  
and the demands  
for low emissions  
while maintaining  
good drivability**

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