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text on polymer  
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*microstructuring \**

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*melting and chaotic*

*mixing mechanisms \**

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*ry, mechanisms, and*

*industrial practice \**

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*and industrial*

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increasingly important  
role of computational  
fluid mechanics \* A  
systematic approach  
to machine  
configuration design  
The Second Edition  
expands on the unique  
approach that  
distinguishes it from  
comparative texts.*

*Rather than focus on*

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*specific processing methods, the authors assert that polymers have a similar experience in any processing machine and that these experiences can be described by a set of elementary processing steps that prepare the polymer for any of the shaping methods. On*

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*the other hand, the authors do emphasize the unique features of particular polymer processing methods and machines, including the particular elementary step and shaping mechanisms and geometrical solutions. Replete with problem sets and a solutions*

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*manual for  
instructors, this  
textbook is*

*recommended for  
undergraduate and  
graduate students in  
chemical engineering  
and polymer and  
materials engineering  
and science. It will  
also prove invaluable  
for industry  
professionals as a*



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*fundamental polymer  
processing analysis  
and synthesis  
reference.*

*The definitive  
reference on  
electromagnetic  
shielding materials,  
configurations,  
approaches, and  
analyses This  
reference provides a  
comprehensive survey*

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*of options for the reduction of the electromagnetic field levels in prescribed areas. After an introduction and an overview of available materials, it discusses figures of merit for shielding configurations, the shielding effectiveness of stratified media,*

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*numerical methods for  
shielding analyses,  
apertures in planar  
metal screens,  
enclosures, and cable  
shielding. Up to date  
and comprehensive,  
Electromagnetic  
Shielding: Explores  
new and innovative  
techniques in  
electromagnetic  
shielding Presents a*

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*critical approach to  
electromagnetic  
shielding that*

*highlights the limits of  
formulations based on  
plane-wave sources*

*Analyzes aspects not  
normally considered  
in electromagnetic  
shielding, such as the  
effects of the content  
of the shielding  
enclosures Includes*

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*references at the end  
of each chapter to  
facilitate further study*

*The last three  
chapters discuss  
frequency-selective  
shielding, shielding  
design procedures,  
and uncommon ways  
of shielding—areas  
ripe for further  
research. This is an  
authoritative, hands-*

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*on resource for  
practicing  
telecommunications*

*and electrical  
engineers, as well as  
researchers in  
industry and  
academia who are  
involved in the design  
and analysis of  
electromagnetic  
shielding structures.*

*This comprehensive*

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textbook is designed  
for first-year graduate  
students from a  
variety of engineering  
and scientific  
disciplines.

*Leverage the  
numerical and  
mathematical modules  
in Python and its  
standard library as  
well as popular open  
source numerical*

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*Python packages like  
NumPy, SciPy, FiPy,  
matplotlib and more.*

*This fully revised  
edition, updated with  
the latest details of  
each package and  
changes to Jupyter  
projects, demonstrates  
how to numerically  
compute solutions and  
mathematically model  
applications in big*



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*data, cloud  
computing, financial  
engineering, business*

*management and  
more. Numerical  
Python, Second  
Edition, presents  
many brand-new case  
study examples of  
applications in data  
science and statistics  
using Python, along  
with extensions to*

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*many previous examples. Each of these demonstrates the power of Python for rapid development and exploratory computing due to its simple and high-level syntax and multiple options for data analysis. After reading this book, readers will be familiar with many*

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*computing techniques  
including array-based  
and symbolic*

*computing,  
visualization and  
numerical file I/O,  
equation solving,  
optimization,  
interpolation and  
integration, and  
domain-specific  
computational  
problems, such as*

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*differential equation  
solving, data analysis,  
statistical modeling  
and machine learning.*

*What You'll Learn*

*Work with vectors and  
matrices using NumPy*

*Plot and visualize*

*data with Matplotlib*

*Perform data analysis  
tasks with Pandas and*

*SciPy Review*

*statistical modeling*

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*and machine learning  
with statsmodels and  
scikit-learn Optimize*

*Python code using*

*Numba and Cython*

*Who This Book Is For*

*Developers who want*

*to understand how to*

*use Python and its*

*related ecosystem for*

*numerical computing.*

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*Technology*

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Shielding*

*Distributed Parameter  
Control Systems*

*A Guide for State,  
Local, and Tribal Law  
Enforcement Agencies*

*Boundary Control of  
Parabolic PDE Using  
Adaptive Dynamic  
Programming*

*Stresses and  
Deformations:*

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*Analysis and Design  
for Sustainability,  
Fourth Edition*

*This  
intelligence  
guide was  
prepared in  
response to  
requests from  
law enforcement  
executives for  
guidance in  
intelligence*

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*functions in a  
post-September  
11 world. It  
will help law  
enforcement  
agencies  
develop or  
enhance their  
intelligence  
capacity and  
enable them to  
fight terrorism  
and other*



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*crimes while  
preserving  
community*

*policing  
relationships.*

*The world of  
law enforcement  
intelligence  
has changed  
dramatically  
since September  
11, 2001.*

*State, local,*

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and tribal law  
enforcement

agencies have

been tasked

with a variety

of new responsi  
bilities;

intelligence is

just one. In

addition, the

intelligence

discipline has

evolved

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*significantly  
in recent  
years. As these  
various trends  
have merged,  
increasing  
numbers of  
American law  
enforcement  
agencies have  
begun to  
explore, and  
sometimes*

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embrace, the  
intelligence  
function. This  
guide is  
intended to  
help them in  
this process.  
The guide is  
directed  
primarily  
toward state,  
local, and  
tribal law

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*enforcement agencies of all sizes that need to develop or reinvigorate their intelligence function.*

*Rather than being a manual to teach a person how to be an*

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*intelligence analyst, it is directed toward that manager, supervisor, or officer who is assigned to create an intelligence function. It is intended to provide ideas, definitions,*

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*concepts, policies, and resources. It is a primera place to start on a new managerial journey. Every law enforcement agency in the United States, regardless of agency size,*

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*must have the capacity to understand the implications of information collection, analysis, and intelligence sharing. Each agency must have an organized mechanism to*



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receive and  
manage

intelligence as  
well as a  
mechanism to  
report and  
share critical  
information  
with other law  
enforcement  
agencies. In  
addition, it is  
essential that

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law enforcement  
agencies

develop lines  
of

communication  
and information-  
sharing

protocols with  
the private  
sector,

particularly  
those related  
to the critical

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*infrastructure,  
as well as with  
those private  
entities that  
are potential  
targets of  
terrorists and  
criminal  
enterprises.*

*Not every  
agency has the  
staff or  
resources to*

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*create a formal  
intelligence  
unit, nor is it  
necessary in  
smaller  
agencies. This  
document will  
provide common  
language and  
processes to  
develop and  
employ an  
intelligence*

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*capacity in  
SLTLE agencies  
across the*

*United States  
as well as*

*articulate a  
uniform*

*understanding  
of concepts,*

*issues, and*

*terminology for  
law enforcement*

*intelligence*

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(LEI). While terrorism issues are currently most pervasive in the current discussion of LEI, the principles of intelligence discussed in this document apply beyond

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*terrorism and  
include*

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*organized crime  
and*

*entrepreneurial  
crime of all*

*forms. Drug*

*trafficking and*

*the associated*

*crime of money*

*laundering, for*

*example,*

*continue to be*

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*a significant  
challenge for  
law*

*enforcement.*

*Transnational  
computer crime,  
particularly  
Internet fraud,  
identity theft  
cartels, and  
global black  
marketeering of  
stolen and*



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counterfeit  
goods, are

entrepreneurial

crime problems

that are

increasingly

being relegated

to SLTLE

agencies to

investigate

simply because

of the volume

of criminal

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*incidents.*

*Similarly,*

*local law*

*enforcement is  
being*

*increasingly*

*drawn into*

*human*

*trafficking and*

*illegal*

*immigration*

*enterprises and*

*the often*

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*associated crimes related to*  
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*counterfeiting of official documents, such as passports, visas, driver's licenses, Social Security cards, and credit cards.*

*All require an*

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*intelligence  
capacity for  
SLTLE, as does  
the  
continuation of  
historical  
organized crime  
activities such  
as auto theft,  
cargo theft,  
and virtually  
any other  
scheme that can*

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produce profit  
for an  
organized  
criminal  
entity. To be  
effective, the  
law enforcement  
community must  
interpret intel  
ligence-related  
language in a  
consistent  
manner. In

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*addition,  
common  
standards,  
policies, and  
practices will  
help expedite  
intelligence  
sharing while  
at the same  
time protecting  
the privacy of  
citizens and  
preserving hard-*

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won community  
policing

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relationships.~

This text is a  
companion

volume to

Transmission

Electron

Microscopy: A

Textbook for

Materials

Science by

Williams and

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*Carter. The aim is to extend the discussion of certain topics that are either rapidly changing at this time or that would benefit from more detailed discussion than space allowed*



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*in the primary  
text. World-  
renowned*

*researchers  
have*

*contributed  
chapters in  
their area of  
expertise, and  
the editors  
have carefully  
prepared these  
chapters to*

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*provide a  
uniform tone  
and treatment  
for this  
exciting  
material. The  
book features  
an unparalleled  
collection of  
color figures  
showcasing the  
quality and  
variety of*

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chemical data  
that can be  
obtained from  
today's  
instruments, as  
well as key  
pitfalls to  
avoid. As with  
the previous  
TEM text, each  
chapter  
contains two  
sets of

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questions, one  
for self

assessment and

a second more

suitable for

homework

assignments.

Throughout the

book, the style

follows that of

Williams &

Carter even

when the

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subject matter  
becomes  
challenging—the  
aim is always  
to make the  
topic  
understandable  
by first-year  
graduate  
students and  
others who are  
working in the  
field of

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*Materials*

*Science Topics*

*covered include*

*sources, in-*  
*situ*

*experiments,*

*electron*

*diffraction,*

*Digital*

*Micrograph,*

*waves and*

*holography,*

*focal-series*

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reconstruction  
and direct

methods, STEM  
and tomography,  
energy-filtered  
TEM (EFTEM)

imaging, and  
spectrum

imaging. The  
range and depth  
of material  
makes this

companion

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*volume*

*essential*

*reading for the*

*budding*

*microscopist*

*and a key*

*reference for*

*practicing*

*researchers*

*using these and*

*related*

*techniques.*

*Seven years*



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have passed  
since the  
publication of  
the previous  
edition of this  
book. During  
that time,  
sensor  
technologies  
have made a  
remarkable leap  
forward. The  
sensitivity of

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*the sensors  
became higher,  
the dimensions  
became smaller,  
the sel- tivity  
became better,  
and the prices  
became lower.*

*What have not  
changed are the  
fundamental  
principles of  
the sensor*

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*design. They  
are still  
governed by the  
laws of Nature.  
Arguably one of  
the greatest  
geniuses who  
ever lived,  
Leonardo Da  
Vinci, had his  
own peculiar  
way of praying.  
He was saying,*

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*“Oh Lord,  
thanks for Thou  
do not violate  
your own laws.*

*” It is  
comforting  
indeed that the  
laws of Nature  
do not change  
as time goes  
by; it is just  
our  
appreciation of*

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*them that is  
being re?ned.*

*Thus, this new  
edition  
examines the  
same good old  
laws of Nature  
that are  
employed in the  
designs of  
various  
sensors. This  
has not changed*

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*much since the  
previous  
edition. Yet,  
the sections  
that describe  
the practical  
designs are  
revised  
substantially.  
Recent ideas  
and  
developments  
have been*

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*added, and less important and nonessential designs were dropped.*

*Probably the most dramatic recent progress in the sensor technologies relates to wide use of MEMS and MEOMS (micro-el*

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electro-  
mechanical  
systems and mic  
ro-electro-opto-  
mechanical  
systems). These  
are examined in  
this new  
edition with  
greater detail.  
This book is  
about devices  
commonly called



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sensors. The invention of a microprocessor has brought highly sophisticated instruments into our everyday lives. Simulation is integral to the successful design of

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*modern radar systems, and there is arguably no better software for this purpose than MATLAB. But software and the ability to use it does not guarantee success. One*

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*must also:*

*Understand*

*radar*

*operations and  
design*

*philosophy Know*

*how to select*

*the radar*

*parameters to*

*meet the design*

*req*

*An Introduction*

*to the*

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*The Solar  
Greenhouse Book  
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**This book covers  
in detail the  
various aspects  
of joining  
materials to form  
parts. A  
conceptual  
overview of rapid  
prototyping and**

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**layered  
manufacturing is  
given, beginning  
with the  
fundamentals so  
that readers can  
get up to speed  
quickly. Unusual  
and emerging  
applications such  
as micro-scale  
manufacturing,**

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**medical applications, aerospace, and rapid manufacturing are also discussed. This book provides a comprehensive overview of rapid prototyping technologies as**

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**well as support  
technologies  
such as software  
systems, vacuum  
casting,  
investment  
casting, plating,  
infiltration and  
other systems.  
This book also:  
Reflects recent  
developments**



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**and trends and  
adheres to the**

**ASTM, SI, and**

**other standards**

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**on automotive**

**technology,**

**aerospace**

**technology and**

**low-cost AM**

**technologies**

**Provides a broad**

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**range of  
technical  
questions to  
ensure  
comprehensive  
understanding of  
the concepts  
covered**

**The purpose of  
this volume is to  
provide a brief  
review of the**

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previous work on  
model reduction  
and identifi-  
cation of  
distributed  
parameter  
systems (DPS),  
and develop new  
spatio-temporal  
models and their  
relevant identifi-  
cation

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approaches. In  
this book, a  
systematic  
overview and  
classification on  
the modeling of  
DPS is presented  
first, which  
includes model  
reduction,  
parameter  
estimation and

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**system identification. Next, a class of block-oriented nonlinear systems in traditional lumped parameter systems (LPS) is extended to DPS, which results in**

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**the spatio-  
temporal Wiener  
and Hammerstein  
systems and their  
identification  
methods. Then,  
the traditional  
Volterra model is  
extended to DPS,  
which results in  
the spatio-  
temporal Volterra**

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**model and its  
identification  
algorithm. All**

**these methods  
are based on  
linear time/space  
separation.**

**Sometimes, the  
nonlinear  
time/space  
separation can  
play a better role**

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**in modeling of  
very complex  
processes. Thus,  
a nonlinear  
time/space  
separation based  
neural modeling  
is also presented  
for a class of DPS  
with more  
complicated  
dynamics.**



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**Finally, all these  
modeling**

**approaches are  
successfully**

**applied to  
industrial thermal  
processes,**

**including a  
catalytic rod, a  
packed-bed**

**reactor and a  
snap curing**

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**oven. The work is presented giving a unified view from time/space separation. The book also illustrates applications to thermal processes in the electronics packaging and**

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**chemical  
industry. This**

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**volume assumes  
a basic**

**knowledge about  
distributed**

**parameter**

**systems, system  
modeling and**

**identifi cation. It**

**is intended for**

**researchers,**

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graduate  
students and  
engineers

interested in  
distributed  
parameter  
systems,  
nonlinear  
systems, and  
process  
modeling and  
control.

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**Control of  
Distributed  
Parameter**

**Systems 1982**

**covers the  
proceeding of the  
Third**

**International  
Federation of  
Automatic**

**Control (IFAC)  
Symposium on**

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Parameter**

**Systems. The  
book reviews  
papers that tackle  
issues  
concerning the  
control of  
distributed  
parameter  
systems, such as**

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**modeling,  
identification,  
estimation,**

**stabilization,**

**optimization, and  
energy system.**

**The topics that  
the book tackles  
include notes on  
optimal and  
estimation result  
of nonlinear**

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**systems;  
approximation of  
the parameter  
identification  
problem in  
distributed  
parameters  
systems; and  
optimal control of  
a punctually  
located heat  
source. This text**



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**also**

**encompasses the  
stabilization of  
nonlinear  
parabolic  
equations and  
the decoupling  
approach to the  
control of large  
spaceborne  
antenna systems.  
Stability of**

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**Hilbert space  
contraction  
semigroups and  
the tracking  
problem in the  
fractional  
representation  
approach are  
also discussed.  
This book will be  
of great interest  
to researchers**

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**and**

**professionals**

**whose work**

**concerns**

**automated**

**control systems.**

**Derived from**

**interviews with a**

**wide range of**

**people who**

**experienced or**

**observed New**

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York's 1991  
Crown Heights  
racial riots, Fires

In The Mirror is  
as distinguished  
a work of  
commentary on  
black-white  
tensions as it is a  
work of drama. In  
August 1991  
simmering

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**tensions in the  
racially polarized  
Brooklyn, New  
York,  
neighborhood of  
Crown Heights  
exploded into  
riots after a black  
boy was killed by  
a car in a rabbi's  
motorcade and a  
Jewish student**

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**was slain by  
blacks in  
retaliation. Fires  
in the Mirror is  
dramatist Anna  
Deavere Smith's  
stunning  
exploration of the  
events and  
emotions leading  
up to and  
following the**

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**Crown Heights  
conflict. Through  
her portrayals of  
more than two  
dozen Crown  
eights  
adversaries,  
victims, and  
eyewitnesses,  
using verbatim  
excerpts from  
their**

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**observations  
derived from  
interviews she  
conducted, Smith  
provides a  
brilliant,  
Rashoman-like  
documentary  
portrait of  
contemporary  
ethnic turmoil.  
Fires in the Mirror**



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**Soviet Physics  
Interface**  
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**Structure of**

**Diblock**

**Copolymer**

**Brushes and**

**Surface**

**Dynamics of**

**Homopolymer**

**Brushes and**

**Bilayers of**

**Untethered**

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**Chains on  
Brushes  
IUTAM**

**Symposium  
Zakopane,  
Poland August 31  
– September 3,  
1993**

**Transmission  
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groups , most of



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them being pioneers  
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to the ubiquitous  
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communications  
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become part of our  
daily lives. In the  
context of our  
growing  
dependence on an  
ever-changing  
digital ecosystem,

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technology, and its

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management, as  
well as for

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practitioners  
working in data- and  
information-

intensive industries.

The IUTAM

Symposium on

"Discrete Structural  
Optimization" was

devoted to discuss  
optimization

problems for which  
design variables

may not be sought

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among continuous sets. Optimum sizing from lists of available profiles, segmentation; as well as allocation and number of supports, sensors or actuators, are good examples of such problems for which design variables may be chosen only

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from finite sets. The above problems are having not only important practical applications. They are also inspiring scientific research in the field of discrete applied mathematics. Among them are controlled enumeration

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methods,  
subgradient

approach, genetic  
programming,

multicriteria  
optimization, neural

nets etc. Along with  
its tradition of

promoting and  
supporting new im

portant fields of  
research in

mechanics and its

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application, General  
Assembly of IUTAM  
decided in 1990 to

support the  
Symposium. It is  
worthy to note that  
this is the second  
IUTAM Symposium  
on structural  
optimization,  
organized in Poland.  
The first one was  
held in Warsaw

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twenty years ago  
and was organized  
by Professors  
Sawczuk and Mroz.  
It was devoted  
mostly to problems  
with continuous  
design variables.  
The Symposium  
which gathered 40  
participants from 12  
countries was  
sponsored by

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several institutions  
listed below.

However support by  
IUTAM should be  
specially  
appreciated. It  
helped several  
scientists to  
contribute to the  
Symposium which  
other way wouldn't  
attend the meeting.  
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to cover the  
essential  
theoretical  
information,  
quickly and  
concisely, in  
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**students to  
tackle  
projects in  
topical  
research areas  
of quantum  
fluids, for  
example,  
solitons,  
vortices and  
collective  
modes. The**

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**selection of  
the material,  
both regarding  
the content  
and level of  
presentation,  
draws on the  
authors  
analysis of  
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**projects with newcomers to the field, as well as of the students feedback from many taught and self-study courses on the subject matter.**

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**a brief  
historical  
overview, this  
text covers  
particle  
statistics,  
weakly  
interacting  
condensates  
and their  
dynamics and  
finally**

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**superfluid  
helium and  
quantum**

**turbulence. At  
the end of  
each chapter  
(apart from  
the first)  
there are some  
exercises.  
Detailed  
solutions can**

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**be made  
available to  
instructors  
upon request  
to the  
authors.**

**The main  
objective of  
the work  
presented in  
this  
dissertation**



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**is to  
understand the  
internal  
structure and  
surface  
dynamics of  
diblock  
copolymer  
brushes  
(DCBs). DCBs  
have garnered  
enormous**

interest in  
recent years  
due to their s  
timuli-  
responsive  
behavior. The  
characteristic  
s of a surface  
of a DCB can  
be changed  
reversibly  
from those of

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**one type to  
those of  
another by  
using a  
selective  
solvent for  
one block.  
There has not  
been any  
experimental  
study to prove  
either the dry**

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**state  
structure or  
the surface  
rearranged  
structure or  
the mechanism  
of that  
rearrangement.  
Understanding  
the dynamics  
of the  
brush/air**

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**interface and  
internal**

**interfaces is  
also important  
to**

**understanding  
the switching  
mechanism, and  
the dynamics  
at the air  
surface have  
further**

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implications  
for wetting,  
friction and  
adhesion.

Using neutron  
reflectivity  
(NR), we have  
resolved the  
internal  
structure of  
DCBs of polyst  
yrene-b-

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poly(methyl  
acrylate) (PS-  
b-PMA) and PMA-  
b-PS. The  
internal brush  
structure  
depends  
strongly on  
the block  
sequence and  
the value of  
[ $\chi_1$ ]N ([ $\chi_1$ ]:

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**Flory-Huggins  
interaction  
parameter, N:**

**length of the  
chains). For**

**dPS-b-PMA**

**films, when**

**[ $\chi$ ]<sub>N</sub> [less  
than or equal**

**to] 23, a**

**model of two**

**layers with an**



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**interfacial  
region of  
finite width  
provides a  
good  
description of  
the data. When  
[chi]N is  
higher, a  
third layer  
must be  
included in**

**the model. A  
third layer is  
consistent**

**with the  
presence of a  
lateral  
ordering in  
the center of  
the brush, as  
evidenced by  
correlation  
peaks in**

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**grazing  
incidence  
small angle  
scattering  
(GISAXS) data  
from these  
samples. For  
PMA-b-dPS  
samples, when  
 $N > 23$ , the  
change in  
reflectivity**

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due to a 3-D  
structure in  
the middle of  
the film may  
be modeled  
with a  
dramatic  
increase of  
interface  
width. In-situ  
NR  
measurements

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**of DCBs in  
selective  
solvents show  
that the  
structure  
changes in a  
way to  
minimize the  
unfavorable  
interaction  
between  
solvent and**

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**the  
solvophobic  
block. How the  
chains in a  
DCB minimize  
this  
unfavorable  
interaction  
depends also  
on the solvent  
quality, the  
ratio of chain**

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lengths of the  
polymer  
blocks, block  
sequence and  
details of the  
brush  
composition  
determined by  
nonidealities  
in the  
synthesis  
DCBs. A

**switching of  
the surface  
character is  
not easily  
obtained**

**unless optimum  
conditions are  
provided. More  
work with DCBs  
of various  
block lengths  
should be**



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**pursued. When  
DCBs are  
swollen with a  
solvent good  
for both  
blocks, they  
behave in a  
manner similar  
to that for  
homopolymer  
brushes, with  
scattering**

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length density  
(SLD) profile  
having,  
overall, a  
parabolic  
shape. The  
dynamics of  
surface height  
fluctuations  
of molten  
homopolymer  
brushes have

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been  
investigated  
using X-ray  
photon  
correlation  
spectroscopy  
(XPCS). Within  
the range of  
time (0.2-1100  
[subscript s])  
and length  
scale (0.6-3

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[micrometers])

studied, no  
relaxation of  
fluctuations  
of the brush  
surfaces are  
detectable.

This is true  
for PS brushes  
of thicknesses  
of 9-101 nm  
and high

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grafting  
density ( $>0.5$   
chains/nm<sup>2</sup>) at  
temperatures  
up to 130°C  
above bulk  
 $T_{g}$ . Even  
reduction of  
the grafting  
density from  
0.6 to 0.1

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**chains/nm<sup>2</sup>  
does not bring  
the relaxation  
into the  
measurement  
window.**

**Tethering not  
only changes  
the surface  
dynamics of  
grafted chains  
but also the**

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surface  
dynamics of  
2.2k dPS

chains spun  
cast on top of  
a PS brush.

The relaxation  
of surface

height

fluctuations

on a melt of a  
certain

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quantity of PS  
chains spun  
cast on top of  
a PS brush  
becomes slower  
than the  
relaxation of  
surface height  
fluctuations  
on a melt of  
the same  
quantity of PS



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**chains placed  
on top of a  
bare silicon  
surface. As  
the thickness  
of the brush  
layer  
increases  
( $h_b$ ), the  
relaxation  
time of**

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**fluctuations  
on top of the  
"bilayer"**

**becomes  
larger. A  
model of  
single layer  
of viscous  
fluid on a  
rigid  
substrate with  
a non-slip**

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**boundary  
condition does  
a good job of  
capturing the  
data.**

**Calculated  
thicknesses  
from the model  
that are  
"effective"  
for the  
observed**

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surface  
dynamics are  
decreases with  
increasing  
 $h_{[subscript$   
 $b]$ . NR

measurements  
reveal the  
actual  
structure of  
the bilayer  
films. The

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**structure  
model consists  
of a bottom  
layer of one  
SLD, a top  
layer of a  
second SLD,  
and an  
interface  
between the  
two layers is  
found to be**

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**reasonable.  
The "top"  
layer**

**thicknesses  
observed with  
NR are the  
same as the  
"effective"  
thicknesses  
from the  
single viscous  
layer analysis**

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of the XPCS  
data within  
the

uncertainties.

As the  
grafting  
density of the  
brush is  
reduced, the  
surface  
dynamics of  
the layer of

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spun cast  
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chains on top  
of the brush

become slower.

This is due to

increasing of

free chains

into the brush

and a decrease

in the

"effective"

thickness of



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**the layer of  
free chains on  
top.**

**Increasing the  
molecular  
weight of the  
free chains,  
 $M_n$ , decreases  
the interface  
width.**

**Interface**

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**width is a decreasing function of  $M_{[subscript n]}$  and decays exponentially with increase of  $M_{[subscript n]}$ .**

**The advance of scientific thought in**

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ways resembles  
biological and  
geologic trans  
formation:  
long periods  
of gradual  
change  
punctuated by  
episodes of  
radical  
upheaval.  
Twentieth

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**century  
physics  
witnessed at  
least three  
major shifts –  
relativity,  
quantum  
mechanics and  
chaos theory –  
as well many  
lesser ones.  
Now, st early**

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in the 21<sup>st</sup>,  
another shift  
appears

imminent, this  
one involving  
the second law  
of thermodynam  
ics. Over the  
last 20 years  
the absolute  
status of the  
second law has

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**come under  
increased  
scrutiny, more  
than during  
any other  
period its  
180-year  
history. Since  
the early  
1980's,  
roughly 50  
papers**

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representing  
over 20  
challenges  
have appeared  
in the  
refereed  
scientific  
literature. In  
July 2002, the  
first  
conference on  
its status was

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**convened at  
the University  
of San Diego,  
attended by  
120  
researchers  
from 25  
countries  
(QLSL2002)  
[1]. In 2003,  
the second  
edition of**



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Le?'s and  
Middle School  
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Rex's classic  
anthology on

Maxwell demons  
appeared [2],  
further  
raising  
interest in  
this emerging  
?eld. In 2004,  
the mainstream  
scientific

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journal  
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Entropy  
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published a  
special  
edition  
devoted to  
second law  
challenges  
[3]. And, in  
July 2004, an  
echo of  
QLSL2002 was

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held in  
Prague, Czech  
Republic [4].  
Modern second  
law challenges  
began in the  
early 1980's  
with the  
theoretical  
proposals of  
Gordon and  
Denur.

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**Starting in  
the  
mid-1990's,  
several  
proposals for  
experimentally  
testable  
challenges  
were advanced  
by Sheehan, et  
al. By the  
late 1990's**

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and early  
2000's, a  
rapid

succession of  
theoretical  
quantum  
mechanical ?  
challenges  
were being  
advanced by C  
'apek, et al.  
This book

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**describes the  
most complex  
machine ever**

**sent to  
another  
planet:  
Curiosity. It  
is a one-ton  
robot with two  
brains,  
seventeen  
cameras, six**

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wheels,  
nuclear power,  
and a laser  
beam on its  
head. No one  
human  
understands  
how all of its  
systems and  
instruments  
work. This  
essential

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reference to  
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the Curiosity  
mission

explains the  
engineering  
behind every  
system on the  
rover, from  
its rocket-  
powered  
jetpack to its  
radioisotope



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thermoelectric  
generator to  
its fiendishly  
complex sample  
handling  
system. Its  
lavishly  
illustrated  
text explains  
how all the  
instruments  
work -- its

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cameras,  
spectrometers,  
sample-cooking  
oven, and  
weather  
station -- and  
describes the  
instruments'  
abilities and  
limitations.  
It tells you  
how the

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systems have  
functioned on  
Mars, and how  
scientists and  
engineers have  
worked around  
problems  
developed on a  
faraway  
planet: holey  
wheels and  
broken focus

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lasers. And it  
explains the  
grueling  
mission  
operations  
schedule that  
keeps the  
rover working  
day in and day  
out.

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Polymer**

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a natural flow of ideas:  
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including the  
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"In this dissertation,  
novel  
adaptive/approximate  
dynamic programming  
(ADP) based state and  
output feedback control  
methods are presented  
for distributed  
parameter systems  
(DPS) which are  
expressed as uncertain  
parabolic partial  
differential equations  
(PDEs) in one and two

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dimensional domains. In the first step, the output feedback control design using an early lumping method is introduced after model reduction. Subsequently controllers were developed in four stages; Unlike current approaches in the literature, state and output feedback approaches were designed without

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utilizing model  
reduction for uncertain  
linear, coupled  
nonlinear and two-  
dimensional parabolic  
PDEs, respectively. In  
all of these techniques,  
the infinite horizon cost  
function was considered  
and controller design  
was obtained in a  
forward-in-time and  
online manner without  
solving the algebraic

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Riccati equation (ARE)

or using value and

policy iterations

techniques. Providing

the stability analysis in

the original infinite

dimensional domain

was a major challenge.

Using Lyapunov

criterion, the ultimate

boundedness (UB)

result was demonstrated

for the regulation of

closed-loop system

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using all the techniques developed herein.

Moreover, due to distributed and large scale nature of state space, pure state feedback control design for DPS has proven to be practically obsolete. Therefore, output feedback design using limited point sensors in the domain or at boundaries are

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introduced. In the final  
two papers, the  
developed state

feedback ADP control  
method was extended to  
regulate multi-  
dimensional and more  
complicated nonlinear  
parabolic PDE  
dynamics"--Abstract,  
page iv.

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solar technology, is ready for practical application after a

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consisting of 10  
theoretical and five  
application-oriented  
chapters contributed by  
well-known workers in  
the distributed-  
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book covers topics of  
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following  
considerations.

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remains quite  
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authors feel strongly  
that they have to  
maintain connections  
between the people  
of this research field.  
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systems cover a

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