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California  
Materials  
Science

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Of  
Technolog  
y Caltech  
Materials  
Science

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*Covering the theory of  
computation,  
information and  
communications, the  
physical aspects of  
computation, and the  
physical limits of  
computers, this text is  
based on the notes  
taken by one of its  
editors, Tony Hey, on a  
lecture course on  
computation given b*

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*Presents the Genome  
Research Laboratory  
at the California  
Institute of Technology  
(CalTech) in  
Pasadena. Describes  
research at the  
Laboratory, including  
the mapping projects  
for human, mice, and  
microbial genomes.  
Details building a  
bacterial artificial*

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*chromosome (BAC)  
library resource by  
cloning DNA vectors.*

*Features illustrations  
of vectormaps and  
nucleotide sequences  
for cloned DNA.*

*Provides e-mail and  
other contact  
information for project  
directors and  
participants.*

*Features the*

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*Department of  
Astronomy at the  
California Institute of  
Technology (Caltech)  
in Pasadena. Includes  
information on the  
computer facilities, the  
Astrophysics Library,  
and several  
observatories.*

*Highlights several  
research groups  
including The Infrared*

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*Army, Space Radiation  
Laboratory, and the  
Pulsar Group. Provides  
information on  
graduate admissions,  
financial aid, current  
student research, and  
curricula. Links to  
other Caltech sites.*

*Decision Neuroscience*

*Legends of Caltech*

*Nonlinear Photonics*

*Caltech computer*

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*science technical report*

*What You Should*

*Know About Science*

*Millikan's School: A*

*History of the*

*California Institute of*

*Technology*

Provides

information

about the Ice

Hockey Club of

the California

Institute of

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Technology  
(Caltech).

Contains an  
overview of the  
team,  
information  
about the team  
roster,  
membership  
information,  
contact  
information, a  
listing of team



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officers, a  
game and  
practice

schedule, and  
game results.

Profiles the  
Center for  
Computational  
Biology, part  
of the Beckman  
Institute of  
the California  
Institute of

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Technology.  
Includes an  
overview of the  
center and  
gives  
information  
about its staff  
and faculty,  
applications of  
computational  
biology,  
ongoing  
projects, and

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technical  
information  
Caltech Materials  
Science  
about the field

of study.

Presents the  
California  
Institute of  
Technology  
(Caltech) Space  
Radiation  
Laboratory  
(SRL) .

Discusses

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satellite  
Caltech Materials  
Science  
experiments,  
high-altitude

balloon-borne  
experiments,  
and accelerator  
experiments.

Includes  
information on  
high energy  
astrophysics,  
computational  
astronomy, and

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SRL  
publications.  
Notes

information on  
upcoming talks  
and a partial  
list of  
previous talks.

Posts a  
directory of  
SRL personnel  
and links to  
other space

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sites of  
interest.

States of  
Matter

Mars and the  
Mind of Man

MICROPROCESSOR-  
REPORT ON PHASE  
2 OF A SEMINAR-  
CALIFORNIA  
INSTITUTE OF  
TECHNOLOGY  
(CALTECH) .

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A Short Course

How I Killed

Pluto and Why

It Had It

Coming

California

Institute of

Technology

(Caltech) :

Space Radiation

Laboratory

(SRL) .

**Presents the**

*Page 15/156*

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Department of  
Mathematics at  
the California

Institute of  
Technology  
(Caltech),

located in  
Pasadena.

Includes  
information  
about

undergraduate



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and graduate  
Caltech Materials  
programs,  
Science  
seminars,

courses, Project  
MATHEMATICS

, employment  
opportunities,  
and other items.

Provides faculty  
profiles. Offers  
access to a  
directory of

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Of Technology  
faculty and  
students. Posts  
contact

information via  
mailing address,  
telephone and  
fax numbers,  
and e-mail  
address.

Presents the  
California  
Institute of

Read Free  
California Institute  
Of Technology  
Technology  
(Caltech) in  
Pasadena,  
California.

Recounts the  
history of  
Caltech and  
contains an  
overview of  
campus life.  
Provides  
information

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Of Technology  
about the  
academic and  
research

programs,  
admissions,  
publications,  
and events.

Notes  
opportunities  
for the  
involvement of  
alumni and

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others. Links to  
library research  
tools and other  
educational Web  
sites. Posts  
contact  
information via  
mailing address  
and telephone  
number.

Decision  
Neuroscience

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addresses  
fundamental  
questions about  
how the brain  
makes  
perceptual,  
value-based,  
and more  
complex  
decisions in non-  
social and social  
contexts. This

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book presents  
compelling  
neuroimaging, e  
lectrophysiologi  
cal, lesional,  
and neurocomp  
utational models  
in combination  
with hormonal  
and genetic  
approaches,  
which have led

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Of Technology

to a clearer  
understanding  
of the neural  
mechanisms  
behind how the  
brain makes  
decisions. The  
five parts of the  
book address  
distinct but  
inter-related  
topics and are



Read Free  
California Institute  
Of Technology  
designed to  
serve both as  
classroom

introductions to  
major subareas  
in decision  
neuroscience  
and as advanced  
syntheses of all  
that has been  
accomplished in  
the last decade.

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Part I is devoted to anatomical, neurophysiological, pharmacological, and optogenetics animal studies on reinforcement-guided decision making, such as the

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representation  
of instructions,  
expectations,  
and outcomes;  
the updating of  
action values;  
and the  
evaluation  
process guiding  
choices between  
prospective  
rewards. Part II

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covers the topic  
of the neural  
representations  
of motivation,  
perceptual  
decision  
making, and  
value-based  
decision making  
in humans,  
combining neur  
computational

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Of Technology

models and  
brain imaging  
studies. Part III

focuses on the  
rapidly  
developing field  
of social  
decision  
neuroscience,  
integrating  
recent  
mechanistic

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understanding  
of social  
decisions in

both non-human  
primates and

humans. Part IV  
covers clinical

aspects

involving

disorders of

decision making

that link

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together basic  
research areas  
including  
systems,  
cognitive, and  
clinical  
neuroscience;  
this part  
examines  
dysfunctions of  
decision making  
in neurological

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and psychiatric disorders, such as Parkinson's disease, schizophrenia, behavioral addictions, and focal brain lesions. Part V focuses on the roles of various hormones



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(cortisol,  
oxytocin,  
ghrelin/leptine)

and genes that  
underlie inter-  
individual  
differences  
observed with  
stress, food  
choices, and  
social decision-  
making

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processes. The  
volume is  
essential

reading for  
anyone  
interested in  
decision making  
neuroscience.

With  
contributions  
that are forward-  
looking

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Of Technology

assessments of  
the current and  
future issues

faced by  
researchers,

Decision

Neuroscience is  
essential

reading for  
anyone

interested in  
decision-making

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Of Technology  
neuroscience.

Provides  
Science  
comprehensive  
coverage of  
approaches to  
studying  
individual and  
social decision  
neuroscience,  
including  
primate  
neurophysiology

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, brain imaging  
in healthy  
humans and in  
various  
disorders, and  
genetic and  
hormonal  
influences on  
decision making  
Covers multiple  
levels of  
analysis, from

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Of Technology

molecular  
mechanisms to  
neural-systems  
dynamics and  
computational  
models of how  
we make  
choices

Discusses  
clinical  
implications of  
process

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Of Technology

dysfunctions,  
including  
Caltech Materials  
Science

schizophrenia,  
Parkinson's  
disease, eating  
disorders, drug  
addiction, and  
pathological  
gambling

Features  
chapters from  
top

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Of Technology  
international  
researchers in  
the field and full-

color

presentation

throughout with

numerous

illustrations to

highlight key

concepts

Techer in the

Dark



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Caltech  
Working for  
CALTECH  
Science

The Unseen  
World: A Novel  
The Best Short  
Works of  
Richard P.  
Feynman  
America's  
Science and  
Technology

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Of Technology

Talent at the  
Crossroads  
Caltech Materials  
Science

**Describes the  
library system  
of the  
California  
Institute of  
Technology  
(Caltech) in  
Pasadena,  
California.  
Posts contact**

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Of Technology  
Caltech Materials  
Science

**information  
via street  
address,  
telephone and  
fax numbers,  
and e-mail.  
Highlights the  
system's  
publications,  
rules of  
access, and  
operating**

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Of Technology

**hours. Details  
online and  
reference  
resources,  
library  
collections,  
and services  
offered.**

**Contains news  
items and a  
site search  
form. Links to**

Read Free  
California Institute  
Of Technology

**other  
reference  
Science**

**resources and  
related sites.**

**The solar  
system most of  
us grew up  
with included  
nine planets,  
with Mercury  
closest to the  
sun and Pluto**

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Of Technology

**at the outer  
edge. Then, in  
2005,**

**astronomer  
Mike Brown  
made the  
discovery of a  
lifetime: a  
tenth planet,  
Eris, slightly  
bigger than  
Pluto. But**

Read Free  
California Institute  
Of Technology

**instead of  
adding one  
more planet to  
our solar  
system,  
Brown's find  
ignited a  
firestorm of  
controversy  
that  
culminated in  
the demotion**

Read Free  
California Institute  
Of Technology  
of Pluto from  
real planet to  
the newly  
coined  
category of  
“dwarf”  
planet.  
Suddenly  
Brown was  
receiving hate  
mail from  
schoolchildren



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Of Technology  
**and being  
bombarded by  
TV**

**reporters—all  
because of the  
discovery he  
had spent  
years  
searching for  
and a lifetime  
dreaming  
about. A**

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Of Technology

**heartfelt and  
personal  
journey filled  
with both  
humor and  
drama, How I  
Killed Pluto  
and Why It  
Had It Coming  
is the book for  
anyone, young  
or old, who**

*Page 50/156*

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Of Technology

has ever  
imagined  
Caltech Materials  
Science

**exploring the  
universe—and  
who among us  
hasn't?**

**In November  
1891, wealthy  
former  
abolitionist  
and Chicago  
politician**

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California Institute  
Of Technology

**Amos Throop  
founded a  
thoroughly un-  
distinguished  
small college  
in Pasadena,  
California,  
which he  
named after  
himself.**

**Millikan's  
School is the**

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Of Technology

**history of this  
institution  
that stands  
today at the  
pinnacle of  
world  
academics,  
with 300 full-  
time faculty,  
nearly 1,000 u  
ndergraduate,  
1,250**

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Of Technology

**graduate  
students and  
39 Caltech and  
alumni Nobel  
Prize  
recipients.**

**Although  
Amos Throop  
— the name of  
the college  
was changed  
to Caltech in**

Read Free  
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Of Technology

**1920 — could  
not have  
realized the  
importance of  
geography, the  
fact that  
Pasadena lay  
at the foot of  
Mount Wilson,  
was central to  
its success:  
astronomer**

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Of Technology

**George Ellery  
Hale built his  
telescope  
there in 1902,  
the finest at  
that time in  
the world.  
Later Hale  
joined the  
board of  
trustees of the  
struggling**



Read Free  
California Institute  
Of Technology  
school and  
persuaded  
Caltech Materials  
Science

**Arthur Amos  
Noyes, former  
president of  
MIT and the  
nation's  
leading  
physical  
chemist, to  
join him in  
Pasadena. The**

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Of Technology

**third member  
of Caltech's  
founding  
troika was  
renowned  
physicist  
Robert A.  
Millikan from  
the University  
of Chicago.  
The dedication  
of Caltech in**

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Of Technology

**1920 and the  
proclamation  
of what it  
stood for in  
science and  
education set  
the stage for  
Millikan, who  
functioned as  
the school's  
president, to  
bring the best**

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Of Technology

**and the  
brightest from  
all over the  
world —**

**Theodore von  
Kármán in  
aeronautics,  
Thomas Hunt  
Morgan in  
biology, Paul  
Sophus  
Epstein in**

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Of Technology

**physics, Beno  
Gutenberg in  
seismology,  
Linus Pauling  
in chemistry —  
to Pasadena to  
work in an  
ever larger  
number of  
areas in  
science and  
technology.**

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Of Technology

**The book also  
covers the  
funding,  
planning and  
construction  
of the  
200-inch  
telescope on  
Palomar  
Mountain,  
Willy Fowler's  
work in**

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Of Technology

**nuclear  
astrophysics  
and the**

**wartime  
rocket**

**experiments  
that grew into  
the Jet**

**Propulsion  
Laboratory  
(JPL), today  
the world**

Read Free  
California Institute  
Of Technology

**leader in deep-  
space  
exploration.**

**“Millikan’s  
School  
presents an  
interesting  
and  
thoroughly  
reliable  
account of the  
astonishing**



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Of Technology

**change over a  
period of a few  
years of a  
small  
technical  
school in  
Pasadena,  
California,  
into one of the  
world's  
leading  
scientific**

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Of Technology

**institutions. “**

**— Linus**

**Pauling “In  
Millikan’s  
School, Judith  
Goodstein tells  
the**

**remarkable  
story of the  
rise of**

**Caltech... She  
details how**

Read Free  
California Institute  
Of Technology

**Millikan, aided  
by Hale and  
Arthur Amos**

**Noyes,  
America's  
leading  
physical  
chemist and  
another of  
Hale's inspired  
acquisitions,  
took a former**

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Of Technology

**trade school  
and forged  
from it a  
'grandiose  
university  
among the  
orange  
groves'... It  
would be  
impossible,  
while reading  
Goodstein's**

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California Institute  
Of Technology

**lively account,  
not to be  
impressed by  
the energy,  
drive and  
boundless  
enthusiasm of  
men like  
Millikan, Hale  
and Noyes...  
[who] had the  
bare-faced**

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Of Technology

**audacity to set  
about building  
an institute to**

**rival the  
cream of the  
universities of  
Europe and  
America.” —**

**Marcus  
Chown, New  
Scientist**

**“[Goodstein’s]**

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California Institute  
Of Technology

**story is first  
and foremost  
the tale of  
three men: the  
astronomer  
George Ellery  
Hale, the  
chemist Alfred  
Noyes, and the  
physicist  
Robert  
Millikan. It is**

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Of Technology

**the story of  
their attempts  
to transform  
an undistingui  
shed little  
school  
founded in  
1891... into a  
world-class  
scientific esta  
blishment...  
[A] useful**



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Of Technology

**book.” — Tony  
Rothman,  
Science “In  
Millikan’s  
School, the  
story of  
Throop  
[University]’s  
transformation  
into Caltech is  
told with  
precision...**

*Page 73/156*

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Of Technology

**Judith  
Goodstein's  
history offers  
a quick tour of  
the landmarks  
of science in  
the mid-20th  
Century and a  
glance at how  
pure science  
puts itself at  
the service of**

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California Institute  
Of Technology

**government,  
commerce and  
the military...**

**Goodstein...  
approaches  
her subject  
with a healthy  
sense of  
humor and an  
acute sense of  
academic  
politics. She**

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Of Technology

tells a  
wonderful  
story about  
how Caltech  
lost to

Princeton in a  
bidding war  
over the  
services of  
Albert

Einstein, for  
example... To

Read Free  
California Institute  
Of Technology

**her credit,  
Goodstein asks  
the hard**

**question:**

**‘What is the  
best way to do  
science?’...**

**Millikan’s  
School offers  
enough hard  
data to enable  
us to come to**

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Of Technology

**our own  
conclusions.”**

**— Jonathan**

**Kirsch, Los  
Angeles Times**

**“A cleanly  
written,  
scientifically  
well informed  
account of one  
of the world’s  
foremost**

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Of Technology  
**institutions for  
science and  
technology.” —**

**Ed Regis,  
Nature  
“Relying on  
archival  
material,  
published  
secondary  
sources, and  
interviews**

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Of Technology

**with institute  
scientists,  
Goodstein  
presents a  
highly  
readable  
account of  
Caltech's  
beginnings at  
the turn of the  
century...  
substantive,**



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Of Technology  
**informative,  
and a good  
read.” —**

**Rebecca S.**

**Lowen,**

**Technology  
and Culture**

**“As a history  
of science, this  
book is well  
crafted.**

**Orderly in its**

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**flow, it is not  
only a tribute  
to Millikan,  
but also places  
him within the  
development  
of physics as a  
field.” —**

**Andrew Rolle,  
Southern  
California  
Quarterly “A**

Read Free  
California Institute  
Of Technology  
**fascinating  
history that  
speaks to**

**issues far  
larger than Cal  
Tech itself...**

**This well-  
written and  
honest  
account  
(witness the  
many cited**

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Of Technology  
**instances of  
anti-Semitism  
in the**

**scientific  
world) is both  
a good read  
and a sobering  
reminder that  
big science  
and top  
schools are  
not brought by**

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Of Technology

**storks.” —  
Carroll  
Pursell,  
History of  
Education  
Quarterly “The  
author focuses  
on the  
personalities  
and the  
research fields  
of the**

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Of Technology

principal  
scientific  
figures... The

[...] emphasis  
on

personalities,  
and capsule  
surveys of  
relevant  
scientific  
fields produce  
a book that

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Of Technology

**can be  
apprehended  
by a wide**

**audience.” —**

**Roger Geiger,**

**Isis “This**

**chronicle**

**offers**

**glimpses of**

**the passion**

**and drive that**

**have**

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Of Technology

motivated a  
roster of  
distinguished  
scientists.” —  
Publishers  
Weekly “A  
lively tale...  
[Goodstein’s]  
individual  
profiles are  
lean and  
candid; her



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Of Technology  
**background on  
subjects as  
diverse as  
nuclear  
astrophysics,  
seismology,  
aeronautical  
design,  
quantum  
mechanics and  
rocket fuel are  
crisp and unde**

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Of Technology

**rstandable...  
With a light  
style... and  
meticulous do  
cumentation,  
Goodstein has  
produced a  
tale worthy of  
her subject... “**

**— Marshall  
Robinson,  
Foundation**

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Of Technology

**News “A  
distinguished  
and uniquely  
American  
institution has  
found its  
chronicler and  
its chronicle in  
Judith  
Goodstein’s  
thorough but  
compact story**

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California Institute  
Of Technology  
of Millikan's  
School. The  
emergence of  
Caltech as a  
powerhouse of  
science and  
engineering  
and a  
makeweight in  
the  
technological  
advancement

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Of Technology  
of 20th  
century  
industry is

both  
beautifully and  
reliably  
presented.” —  
Harry Woolf,  
Institute for  
Advanced  
Study,  
Princeton

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Of Technology  
**University**  
**The Golem**  
**An Integrative**  
**Perspective**  
**California**  
**Institute of**  
**Technology**  
**(Caltech)**  
**Public Events**  
**A Survey**  
**Learning from**  
**Data**

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Of Technology

**California  
Institute of  
Technology**

**(Caltech):**

**Department of  
Mathematics**

*The Golem What  
You Should*

*Know About Sci  
ence Cambridge*

*University Press*

*The moving*

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Of Technology

*story of a  
daughter's  
quest to  
discover the  
truth about her  
beloved father's  
hidden past. Ada  
Sibelius is  
raised by David,  
her brilliant,  
eccentric,  
socially inept*



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***single father,  
who directs a  
computer  
science lab in  
1980s-era  
Boston. Home-  
schooled, Ada  
accompanies  
David to work  
every day; by  
twelve, she is a  
painfully shy***

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***prodigy. The lab  
begins to gain  
acclaim at the  
same time that  
David's  
mysterious  
history comes  
into question.  
When his mind  
begins to falter,  
leaving Ada  
virtually an***

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*orphan, she is taken in by one of David's colleagues. Soon she embarks on a mission to uncover her father's secrets: a process that carries her from childhood to adulthood. What*

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***Ada discovers on  
her journey into  
a virtual***

***universe will  
keep the reader  
riveted until The  
Unseen World's  
heart-stopping,  
fascinating  
conclusion.***

***Suitable for  
advanced***

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***undergraduates  
and graduate  
students of  
physics, this  
uniquely  
comprehensive  
overview  
provides a  
rigorous,  
integrated  
treatment of  
physical***

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***principles and  
techniques  
related to gases,  
liquids, solids,  
and their phase  
transitions.***

***1975 edition.***

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Caltech III  
Caltech Control  
and Dynamical  
Systems***

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Conference on  
Very Large Scale  
Integration**

**Caltech Catalog  
Caltech and  
Aeronautics  
The Caltech  
Alumni**

*Harry Collins  
and Trevor  
Pinch liken*

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*science to the  
Golem, a  
creature from*

*Jewish  
mythology,  
powerful yet  
potentially  
dangerous, a  
gentle, helpful  
creature that  
may yet run  
amok at any*



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*moment.*

*Through a  
series of*

*intriguing case  
studies the*

*authors debunk  
the traditional  
view that*

*science is the  
straightforward  
result of*

*competent*

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*theorisation,  
observation and  
experimentation*

*. The very well-  
received first  
edition  
generated much  
debate,  
reflected in a  
substantial new  
Afterword in  
this second*

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*edition, which  
seeks to place  
the book in*

*what have  
become known  
as 'the science  
wars'.*

*Astrochemistry  
by Olivia Harper  
Wilkins and  
Geoffrey Blake  
(Caltech) takes*

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*scientists on a  
tour of the  
molecular  
universe  
starting with the  
advent of matter  
about 13.8  
billion years ago  
before  
traversing  
through the  
interstellar*

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*medium and the  
formation of  
stars and  
planets - and  
the chemistry  
that evolves  
alongside them.  
This primer  
contains video  
interviews with  
prominent  
insiders*

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Center for  
Astrophysics |*

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Departments of  
Astronomy and  
Chemistry,  
University of*



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*Virginia · Dr.  
Kyle Crabtree,  
Assistant*

*Professor of  
Chemistry,  
University of  
California,  
Davis.*

*The papers in  
this book were  
presented at the  
Third Caltech*

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*Conference on  
Very Large  
Scale*

*Integration,  
held March  
21-23, 1983 in  
Pasadena,  
California. The  
conference was  
organized by  
the Computer  
Science Depart*

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ment, California  
Caltech Materials  
Institute of  
Science  
Technology, and  
was partly  
supported by  
the Caltech  
Silicon  
Structures  
Project. This  
conference  
focused on the  
role of

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*systematic  
methodologies,  
theoretical  
models, and  
algorithms in all  
phases of the  
design,  
verification, and  
testing of very  
large scale  
integrated  
circuits. The*

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*need for such  
disciplines has  
arisen as a  
result of the  
rapid progress  
of integrated  
circuit  
technology over  
the past 10  
years. This  
progress has  
been driven*

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*largely by the  
fabrication  
technology,  
providing the  
capability to  
manufacture  
very complex  
electronic  
systems reliably  
and at low cost.  
At this point the  
capability to*

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*manufac ture  
very large scale  
integrated  
circuits has  
exceeded our  
capability to  
develop new  
product designs  
quickly, reliably,  
and at a  
reasonable cost.  
As a result new*

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Science

*designs are  
undertaken only  
if the production  
volume will be  
large enough to  
amortize high  
design costs,  
products first  
appear on the  
market well past  
their announced  
delivery date,*



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and reference  
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manuals must  
Science

*be amended to  
document  
design flaws.  
Recent research  
in universities  
and in private  
industry has  
created an  
emerging  
science of very*

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*large scale  
integration.*

*Astrochemistry*

*Caltech-CS-TR*

*Caltech Catalog*

*1985-1986*

*Cavitation and  
Bubble*

*Dynamics*

*Lectures On*

*Computation*

*A Presentation*

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Presents the Control  
and Dynamical

Systems (CDS), a  
graduate program at  
the California

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Technology  
(Caltech) in

Pasadena that deals  
with the analysis and  
control of uncertain,  
multivariable, and

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nonlinear dynamical  
systems. Posts

contact information  
via mailing address  
and telephone and  
fax numbers.

Contains  
information on  
research activities,  
conferences, and  
applying to the  
program. Provides

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(Caltech) located in  
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upcoming events and

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other events around  
campus through the

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(published by the  
Office of Public  
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campus Master  
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online comment  
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information for

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tickets for special  
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events.  
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Nonlinear photonics  
is the name given to  
the use of nonlinear  
optical devices for  
the generation,  
communication,  
processing, or  
analysis of  
information. This  
book is a progress

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report on research  
into practical  
Science  
applications of such  
devices. At present,  
modulation,  
switching, routing,  
decision-making,  
and detection in  
photonic systems are  
all done with  
electronics and  
linear optoelectronic



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devices. However,  
this may soon  
change, as nonlinear  
optical devices, e.g.  
picosecond samplers  
and switches, begin  
to complement  
optoelectronic  
devices. The authors  
succinctly  
summarize past  
accomplishments in

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this field and point to hopes for the future, making this an ideal book for newcomers or seasoned researchers wanting to design and perfect nonlinear optical devices and to identify applications in photonic systems.

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Inyo National Forest  
(N.F.), California

Institute of  
Technology  
(Caltech) Combined  
Array for Research  
in Millimeter-wave  
Astronomy  
(CARMA) Project  
Center for  
Computational  
Biology, Beckman

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(Caltech).

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of Technology  
Cavitation and  
Bubble Dynamics

deals with  
fundamental  
physical processes  
of bubble dynamics  
and cavitation for  
graduate students  
and researchers.

In order for the  
United States to  
maintain the global

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leadership and  
competitiveness in  
science and

technology that are  
critical to achieving  
national goals, we  
must invest in  
research,

encourage  
innovation, and  
grow a strong and  
talented science  
and technology

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workforce.

Expanding

Underrepresented

Minority

Participation

explores the role of

diversity in the

science, technology,

engineering and

mathematics

(STEM) workforce

and its value in

keeping America

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innovative and  
competitive.  
Caltch Materials  
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According to the book, the U.S. labor market is projected to grow faster in science and engineering than in any other sector in the coming years, making minority participation in STEM education at



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all levels a national  
priority. Expanding  
Underrepresented

Minority

Participation

analyzes the rate of  
change and the

challenges the

nation currently

faces in developing

a strong and diverse

workforce. Although

minorities are the

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fastest growing  
segment of the  
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population, they are underrepresented in the fields of science and engineering.

Historically, there has been a strong connection between increasing educational attainment in the United States and

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the growth in and  
global leadership of  
the economy.

Expanding  
Underrepresented  
Minority  
Participation  
suggests that the  
federal government,  
industry, and post-  
secondary  
institutions work  
collaboratively with

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K-12 schools and school systems to increase minority access to and demand for post-secondary STEM education and technical training. The book also identifies best practices and offers a comprehensive road map for

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increasing  
involvement of  
underrepresented  
minorities and  
improving the  
quality of their  
education. It offers  
recommendations  
that focus on  
academic and social  
support, institutional  
roles, teacher  
preparation,

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affordability and  
program  
development.

The campus of the  
California Institute of  
Technology was  
destined for  
architectural  
greatness when, in  
1915, the  
university's visionary  
founder, astronomer  
George Ellery Hale,

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retained one of New  
York's preeminent  
architects, Bertram  
Goodhue, to devise  
a master plan for 22  
acres of orange  
groves in what was  
then rural  
Pasadena.

Goodhue's eclectic  
"planted patios and  
shaded portales,  
sheltering walls, and

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Persian pools" set the tone for the campus's illustrious architectural future. Throughout the first half of the century, Caltech's nearly continuous expansion would spawn such architectural jewels as the Athenaeum, a combination



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Italian villa and  
Spanish hacienda;  
Greene and  
Greene's bungalow-  
style student union;  
and the gardens of  
landscape architects  
Beatrix Ferrand and  
Florence Yoch, who  
thoughtfully mixed  
the campus's  
Mediterranean  
themes with its

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natural California  
setting. Well-  
researched and  
informative, this  
book details the  
organizational and  
architectural  
elements that have  
made Caltech a  
model for scientific  
institutions the world  
over. Rare  
photographs of lost

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and altered  
buildings portray an  
early Pasadena with  
ambitious plans to  
become a cultural  
mecca, while  
contemporary  
images reflect the  
Institute's continued  
dedication to a rich  
architectural future.  
Genome Research  
Laboratory,

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Technology  
(Caltech).

Proceedings of  
Caltech Conference  
on Very Large Scale  
Integration //

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Department.\*Califor  
nia Institute of  
Technology\* ; 3

The Pleasure of  
Finding Things Out

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System  
Department of  
Astronomy,  
California Institute of  
Technology  
Expanding  
Underrepresented  
Minority  
Participation  
Provides  
information about

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plays showing on  
and around the  
Pasadena campus  
of California  
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Technology  
(Caltech).  
Contains  
information about  
plays being  
performed or in  
production, as well

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as performing  
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dates and  
Science

locations. Includes  
information about  
ticket sales. Gives  
information about  
upcoming  
auditions on and  
around the  
campus. Includes  
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Internet sites.

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This collection  
from scientist and  
Nobel Peace Prize  
winner highlights  
the achievements  
of a man whose  
career reshaped  
the world's  
understanding of  
quantum  
electrodynamics.  
The Pleasure of



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Finding Things Out  
is a magnificent  
treasury of the

best short works of  
Richard P.

Feynman-from  
interviews and  
speeches to

lectures and  
printed articles. A  
sweeping, wide-  
ranging collection,

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it presents an  
intimate and  
fascinating view of  
a life in science-a  
life like no other.

From his  
ruminations on  
science in our  
culture to his  
Nobel Prize  
acceptance  
speech, this book

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will fascinate  
anyone interested  
in the world of  
ideas.

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Integration //  
Computer Science  
Department.\*Califo  
rnia Institute of

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Technology\* ; 2  
California Institute  
of Technology  
(Caltech) Ice  
Hockey Club  
Caltech's  
Architectural  
Heritage  
From Spanish Tile  
to Modern Stone