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have to try. This is not
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compulsion or an
existential yearning, still

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less an academic
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exercise. It's a survival
issue. This is the only
planet we have. We're
stuck here, and we don't
own the place—it would
be the height of
arrogance to assume that
we do. We're tenants
here, not owners, but
we're tenants with hope
for a long-term tenancy.
We want to extend our
lease just as far as we

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can."—from *Earth: A
Tenant's Manual* In
*Earth: A Tenant's
Manual*, the
distinguished geologist
Frank H. T. Rhodes,
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provides a sweeping,
accessible, and deeply
informed guide to the
home we all share,
showing us how we
might best preserve the

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Earth's livability for ourselves and future generations. Rhodes begins by setting the scene for our active planet and explaining how its location and composition determine how the Earth works and why it teems with life. He emphasizes the changes that are of concern to us today, from earthquakes to

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the Earth—is whether an
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like ours is sustainable.

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and, most of all, new
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the damage that
humanity is doing to our
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sustainable human
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concludes in this eloquent, sobering, but ultimately optimistic book, will require a sense of responsible stewardship, for we are not owners of this planet; we are tenants. Surveying the systems, large and small, that govern Earth's processes and influence its changes, Rhodes addresses the negative

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over time?

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have
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flown to Mars
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and dust
cycles, the at-
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provided an

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excellent
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of atmospheric
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chemistry from a
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material
addressing
scientists who
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disciplines, and

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Presupposing only basic knowledge of probability and

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should be of interest
to researchers in
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solid understanding of
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performance of these
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outlined. The book will
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medicine students,
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physicians, and
technologists.*

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do I speed up a
numerical simulation
by mapping it
efficiently onto a
parallel computer?
How must
components be
organized on a
computer chip such
that they can
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efficiently with each
other? What are the

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segments of a digital image? Which functions are certain genes (most likely) responsible for? The 10th DIMACS Implementation Challenge Workshop was devoted to determining realistic performance of algorithms where worst case analysis is overly pessimistic and

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global warming,
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natural climate change
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Anthony J. McMichael,
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how human health relates to climate change, is the ideal person to tell this story. Climate Change and the Health of Nations shows how the natural environment has vast direct and indirect repercussions for human health and welfare. McMichael takes us on a tour of

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in relation to their environments, most notably with the development of agriculture eleven thousand years ago. Agricultural civilization was a Faustian bargain, however: the prosperity and comfort that an agrarian society provides relies on the assumption that the environment will

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largely remain stable. Indeed, for agriculture to succeed, environmental conditions must be just right, which McMichael refers to as the "Goldilocks phenomenon." Global warming is disrupting this balance, just as other climate-related upheavals have tested human societies

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throughout history. As
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displays are already
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*outcomes obtained
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with carbon-ion
therapy for various
types of tumors in
terms of local control
and toxicities. It is
essential to
understand that the
carbon-ion beam is
like a two-edged
sword: unless it is
used properly, it can
increase the risk of*

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*severe injury to
critical organs. In
early series of dose-
escalation studies,
some patients
experienced serious
adverse effects such as
skin ulcers,
pneumonitis, intestinal
ulcers, and bone
necrosis, for which
salvage surgery or
hospitalization was*

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*required. To preclude
such detrimental
results, the adequacy
of therapeutic
techniques and dose
fractionations was
carefully examined in
each case. In this way,
significant
improvements in
treatment results have
been achieved and
major toxicities are no*

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compete with, and for
specific applications
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allow for large-scale
fabrication of organic
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*and functional devices
for use as wearable
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*techniques and
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continues to
rise across
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systems
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provision. Many
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professors and
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UNESCO
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sources, this
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**striving to build
top-quality
universities
that can
produce the
research and
workforce
needed for
national
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development.
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presents a**

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**range of data to
better evaluate
the economic
benefits flowing
from university
research, as
well as the
spillover effects
to the private
sector. The
authors also
analyse the
ways in which**

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collaboration
can boost the
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and quality of u
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report provides
the data and
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countries weigh
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policies to
expand their
higher
education
systems.**