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disciplines.**

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presents less
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of these
emerging
technologies,
but rather
showcases the
scientific use**

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**of VR/AR in
healthcare,
building
industry and
education. VR
and AR are
known to be
resource
intensive,
namely, in
terms of
hardware and**

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**wearables -
this is
covered in a
chapter on
head-mounted
display (HMD).
The research
work presented
in this book
is of
excellent
standard**

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**presented in a
very pragmatic
way; readers
will
appreciate the
depth and
breadth of the
methodologies
and
discussions
about the
findings. We**

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**hope it serves
as a**

**springboard
for future
research and
development in
VR/AR and
stands as a
lighthouse for
the scientific
community.**

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***connecting
structural steel
components,
covering state-
of-the-art
techniques and
materials, and
includes new
information on
welding and
connections.
Hundreds of
detailed***

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**examples,
photographs,
and
illustrations are
found
throughout this
practical
handbook.**

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structural
connections
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axial, moment,
and shear
forces Welded
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Splices,
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Partially

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design for
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connections
Connection to
composite
members
Describes
prison life and
the struggle of
a woman to
forge new
frontiers in a
previously all-
male domain.***

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***"This reference
is a
comprehensive
collection of
recent case
studies,
theories,
research on
digital rights
management,
and its place in
the world
today"--***

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***Who's who in
New York (city
and State).
The Warden
Wore Pink
Digital Rights
Management:
Concepts,
Methodologies,
Tools, and
Applications
Architecturally
Exposed***

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Structural Steel Design and Theory

There will be 8.3 billion human beings on Earth by 2030, and the more the better. We have the opportunity to create a world of expansive megacities -

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including one around old London. Doing so will advance the art, science and processes of manufacturing. But to deploy those abilities we must shrug off the dogma of sustainability that insists only small can be beautiful.

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Humanity has come a long way since the first modular mega-structure was built at Ur, on land that is now Iraq. There, four millennia ago, and by hand, the Sumerians built a mud-brick ziggurat to their Gods.

Today, the green

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deities of Nature we have invented for ourselves are worshipped with humility. Eco-zealots argue against the mechanised megaforming of landscape and the modularised production of megastructures. The

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guest editors,
Jonathan Schwinge
and Ian Abley of the
London based
research
organisation
audacity, call for
development on a
bold scale. They
argue that by rapidly
super-sizing the built
environment society

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is not made
vulnerable to natural
or man-made
hazards, and that
design innovation
surpasses bio-
mimicry. Designers
can learn from
materials scientists
working at the
smallest of scales,
and from systems

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manufacturers with ambitions at the largest. This issue calls for creative thinking about typologies and topologies, and considers what that also means for Africa, China, and Russia. Megacities everywhere demand

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integration of global systems of transport, utilities and IT in gigantic structures, constantly upgraded, scraping both the sky and the ground, outward into the sea.

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Contributions to
Periodicals (January
- June)

Networks powered
by algorithms are
pervasive. Major
contemporary
technology
trends—Internet of
Things, Big Data,
Digital Platform
Power, Blockchain,

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and the Algorithmic
Society—are

manifestations of
this phenomenon.

The internet, which
once seemed an
unambiguous benefit
to society, is now the
basis for invasions
of privacy, massive
concentrations of
power, and wide-

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scale manipulation.

The algorithmic
networked world
poses deep questions
about power,
freedom, fairness,
and human agency.

The influential 1997
Federal
Communications
Commission

whitepaper “Digital

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Tornado” hailed the “endless spiral of connectivity” that would transform society, and today, little remains untouched by digital connectivity. Yet fundamental questions remain unresolved, and even more serious

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challenges have emerged. This important collection, which offers a reckoning and a foretelling, features leading technology scholars who explain the legal, business, ethical, technical, and public policy challenges of

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building pervasive
networks and
algorithms for the
benefit of humanity.

This title is also
available as Open
Access on

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Connections, Details
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Interaction using

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This book provides
the means for a
better control and

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purposeful
consideration of
the design of
Architecturally
Exposed Structural
Steel (AESS). It
deploys a detailed
categorization of
AESS and its uses
according to
design context,
building typology

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and visual exposure. In a rare combination, this approach makes high quality benchmarks compatible with economies in terms of material use, fabrication methods, workforce and

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cost. Building with exposed steel has become more and more popular worldwide, also as advances in fire safety technology have permitted its use for building tasks under stringent fire regulations. On

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her background of long standing as a teacher in architectural steel design affiliated with many institutions, the author ranks among the world's best scholars on this topic. Among the fields covered

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by the extensive approach of this book are the characteristics of the various categories of AESS, the interrelatedness of design, fabrication and erection of the steel structures, issues of coating

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and protection
(including
corrosion and fire
protection), special
materials like
weathering steel
and stainless
steel, the member
choices and a
connection design
checklist. The
description draws

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on many
international
examples from
advanced
contemporary
architecture, all
visited and
photographed by
the author, among
which figure
buildings like the
Amgen Helix

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Bridge in Seattle,
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Arganquela
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The development
of the limit state
approach to
design in recent

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years has focused particular attention on two basic requirements: accurate information regarding the behavior of structures throughout the entire range of loading up to the

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ultimate strength,
and simple
practical
procedures to
enable engineers
to assess this
behavior. This
book satisfies
these
requirements by
providing practical
analysis methods

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for the design of steel frames. The book contains a wide range of second-order analyses: from elastic to inelastic, rigid to semi-rigid connections, and simple plastic hinge method to sophisticated

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engineering
project managers
considering
obtaining a Project
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extensively

researched and

meticulously

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showing
evidence of
years of work
rather than
something that
has been
quickly put
together in
the course of
a few months.
It brings
together most

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for such a
book is
indisputable,
and it is
terrific that
Chuck Eastman
and his team
were able to
step up to the
plate and make
it happen.
Thanks to

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their efforts,
anyone in the
AEC industry
looking for a
deeper
understanding
of BIM now
knows exactly
where to look
for it."

—AECbytes book
review, August

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28, 2008 (www.aecbytes.com/review/2008/BIM-Handbook.html)

DISCOVER BIM:

A BETTER WAY

TO BUILD

BETTER

BUILDINGS

Building

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Modeling (BIM)

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they function,
and the ways
in which they
are designed
and built. The
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provides an in-
depth
understanding
of BIM
technologies,

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the business
and

organizational
issues

associated

with its imple-
mentation, and

the profound

advantages

that effective

use of BIM can

provide to all

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fundamental

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of
incompressible
and
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machines and
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dynamics of
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spanning five
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if the world
were ending? A
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event renders
the earth a
ticking time
bomb. In a
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against the
inevitable,
nations around

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the globe band
together to
devise an
ambitious plan
to ensure the
survival of
humanity far
beyond our
atmosphere, in
outer space.
But the
complexities

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and unpredicta
bility of
human nature
coupled with
unforeseen
challenges and
dangers
threaten the
intrepid
pioneers,
until only a
handful of

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survivors

remain . . .

Five thousand
years later,
their
progeny—seven
distinct races
now three
billion
strong—embark
on yet another
audacious

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journey into
the unknown .

. . to an

alien world

utterly

transformed by

cataclysm and

time: Earth. A

writer of

dazzling

genius and

imaginative

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and literature
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ideas and

perplexing

challenges in

a breathtaking

saga that is

daring,

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and altogether
brilliant.

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Publication of
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Presented at
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Futures 2005
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Vienna

University of
Technology,
Vienna,

Austria, on
June 20-22,
2005

Bloomington,
Monroe County,
IN.

Advanced
Analysis of

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**With her
characteristic
brilliance, grace
and radical
audacity, Angela
Y. Davis has put
the case for the**

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**latest abolition
movement in
American life: the
abolition of the
prison. As she
quite correctly
notes, American
life is replete with
abolition
movements, and
when they were
engaged in these**

**struggles, their
chances of
success seemed
almost
unthinkable. For
generations of
Americans, the
abolition of
slavery was
sheerest illusion.
Similarly, the
entrenched**

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**system of racial
segregation
seemed to last
forever, and
generations lived
in the midst of
the practice, with
few predicting its
passage from
custom. The
brutal,
exploitative (dare**

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**one say
lucrative?)
convict-lease
system that
succeeded formal
slavery reaped
millions to
southern
jurisdictions (and
untold miseries
for tens of
thousands of**

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men, and women). Few predicted its passing from the American penal landscape. Davis expertly argues how social movements transformed these social, political and

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**cultural
institutions, and
made such
practices
untenable. In Are
Prisons
Obsolete?,
Professor Davis
seeks to illustrate
that the time for
the prison is
approaching an**

**end. She argues
forthrightly for
"decarceration",
and argues for
the
transformation of
the society as a
whole.**

**Soil-structure
interaction is an
area of major
importance in**

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**geotechnical
engineering and
geomechanics
Advanced
Geotechnical
Engineering: Soil-
Structure
Interaction using
Computer and
Material Models
covers computer
and analytical**

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**methods for a
number of
geotechnical
problems. It
introduces the
main factors
important to the
application of
computer
Discover BIM: A
better way to
build better**

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**buildings
Building
Information
Modeling (BIM)
offers a novel
approach to
design,
construction, and
facility
management in
which a digital
representation of**

the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way

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**they function,
and the ways in
which they are
designed and
built. The BIM
Handbook, Third
Edition provides
an in-depth
understanding of
BIM
technologies, the
business and**

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organizational issues

**associated with
its
implementation,
and the profound
advantages that
effective use of
BIM can provide
to all members of
a project team.
Updates to this**

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**edition include:
Information on
the ways in which
professionals
should use BIM
to gain maximum
value New topics
such as
collaborative
working, national
and major
construction**

clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM

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**practices and
services A wealth
of new case
studies that
clearly illustrate
exactly how BIM
is applied in a
wide variety of
conditions
Painting a
colorful and
thorough picture**

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art in building
information
modeling, the
BIM Handbook,
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guides readers to
successful
implementations,
helping them to
avoid needless
frustration and**

costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

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Megastructures

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authentic
biographies of
New Yorkers
who are leaders
and
representatives
in various
departments of

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worthy human
achievement
including
sketches of
every army and
navy officer
born in or
appointed from
New York and
now serving, of
all the
congressmen

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from the state,
all state
senators and
judges, and all
ambassadors,
ministers and
consuls
appointed from
New York.
The book is
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