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# Episode 6 The Atom

This two-part volume contains a comprehensive collection of original studies by well-known scholars focusing on the Bible's wide-ranging reception in

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world cinema. It is organized into sections examining the rich cinematic afterlives of selected characters from the Hebrew Bible and New Testament; considering issues of biblical reception across a wide array of film genres, ranging from noir to

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anime; featuring directors, from Lee Chang-dong to the Coen brothers, whose body of work reveals an enduring fascination with biblical texts and motifs; and offering topical essays on cinema's treatment of selected biblical themes (e.g.,

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lament,  
apocalyptic),  
particular  
interpretive lenses  
(e.g., feminist  
interpretation, queer  
theory), and  
windows into biblical  
reception in a  
variety of world  
cinemas (e.g.,  
Indian, Israeli, and  
Third Cinema). This

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handbook is intended for scholars of the Bible, religion, and film as well as for a wider general audience.

An unflinching examination of the moral and professional dilemmas faced by physicians who took

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part in the  
Manhattan Project.  
After his father died,  
James L. Nolan, Jr.,  
took possession of a  
box of private family  
materials. To his  
surprise, the small  
secret archive  
contained a treasure  
trove of information  
about his  
grandfather's role

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as a doctor in the Manhattan Project. Dr. Nolan, it turned out, had been a significant figure. A talented ob-gyn radiologist, he cared for the scientists on the project, organized safety and evacuation plans for the Trinity test at Alamogordo,

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escorted the “Little Boy” bomb from Los Alamos to the Pacific Islands, and was one of the first Americans to enter the irradiated ruins of Hiroshima and Nagasaki.

Participation on the project challenged Dr. Nolan’s instincts as a healer. He and



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his medical colleagues were often conflicted, torn between their duty and desire to win the war and their oaths to protect life. Atomic Doctors follows these physicians as they sought to maximize the health and safety of those

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exposed to nuclear radiation, all the while serving leaders determined to minimize delays and maintain secrecy. Called upon both to guard against the harmful effects of radiation and to downplay its hazards, doctors struggled with the

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ethics of ending the deadliest of all wars using the most lethal of all weapons. Their work became a very human drama of ideals, co-optation, and complicity. A vital and vivid account of a largely unknown chapter in atomic history,

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Atomic Doctors is a profound meditation on the moral dilemmas that ordinary people face in extraordinary times.

Why our obsession with truth--the idea that some undeniable truth will make politics unnecessary--is

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driving our political polarization. In *The Divide*, Taylor Dotson argues provocatively that what drives political polarization is not our disregard for facts in a post-truth era, but rather our obsession with truth. The idea that some undeniable truth will

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make politics unnecessary, Dotson says, is damaging democracy. We think that appealing to facts, or common sense, or nature, or the market will resolve political disputes. We view our opponents as ignorant, corrupt, or

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brainwashed.

Dotson argues that we don't need to agree with

everyone, or force everyone to agree

with us; we just need to be civil

enough to practice effective politics.

Dotson shows that we are misguided to pine for a lost age of

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respect for expertise. For one thing, such an age never happened. For another, people cannot be made into ultra-rational Vulcans. Dotson offers a road map to guide both citizens and policy makers in rethinking and refashioning political



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interactions to be more productive. To avoid the trap of divisive and fanatical certitude, we must stop idealizing expert knowledge and romanticizing common sense. He outlines strategies for making political disputes more

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productive:  
admitting  
uncertainty, sharing  
experiences, and  
tolerating and  
negotiating  
disagreement. He  
suggests reforms to  
political practices  
and processes,  
adjustments to  
media systems, and  
dramatic changes to

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schooling, childhood, the workplace, and other institutions. Productive and intelligent politics is not a product of embracing truth, Dotson argues, but of adopting a pluralistic democratic process. Sustainable

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Science, Fourth

Edition

Episode 6

Federal Register

Neutral-Atom

Astronomy: Plasma

Diagnostics from

The Aurora to the

Interstellar Medium

The Science of The

Big Bang Theory

The Science of

Breaking Bad

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*For Becca, thinking the disaster at her high school prom was bad enough, she'll quickly learn just how dark her world can become as the deepest cuts hit closest to home when Grandpa goes missing. Taken by a sadistic killer that has haunted*

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*Ardenwood for weeks, his safe return is left to chance in a town forced into lockdown by a continued spread of chaos and panic. While the AOA are stretched thin rushing to end a villain's reign of terror, she'll struggle with the*

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*choice to either risk it all for family or play by the rules to stay alive. With a target on her back and every step potential death, the sinister game of cat and mouse she's found herself in will soon include additional players as a new foe slips from*

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*the shadows  
bringing fresh  
calamity to an  
already crumbling  
situation. With no  
options left and  
nowhere to run,  
clues lead to  
connections as help  
comes from the  
oddest places and  
foes strike back  
even harder. Can*



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*she align the pieces  
and emerge  
victorious, or will  
rebellious desperate  
actions see it all  
burn to the ground?  
The epic Season 1  
finale reaches its  
climax leaving no  
stone unturned, but  
when the dust finally  
settles, who will be  
left standing? Clock*

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*in, fight crime. Every day on the force a dice roll, every night a spin on the wheel. Take your chances and win big or go home dead. Just remember that in Ardenwood, regardless of wager, there will always be blood.*

*Freedom of the sort*

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*implicated in acting freely or with free will is important to the truth of different sorts of moral judgment, such as judgments of moral responsibility and those of moral obligation. Little thought, however, has been invested into whether*

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*appraisals of good  
or evil presuppose  
free will. This  
important topic has  
not commanded the  
attention it deserves  
owing to what is  
perhaps a prevalent  
assumption that  
freedom leaves  
judgments  
concerning good  
and evil largely*

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*unaffected. The central aim of this book is to dispute this assumption by arguing for the relevance of free will to the truth of two sorts of such judgment: welfare-ranking judgments or judgments of personal well-being (when is one's life*

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*intrinsically good for the one who lives it?), and world-ranking judgments (when is a possible world intrinsically better than another?). The book also examines free will's impact on the truth of such judgments for central issues in*

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*moral obligation and  
in the free will  
debate. This book  
should be of interest  
to those working on  
intrinsic value,  
personal well-being,  
moral obligation,  
and free will.*

*How have nuclear  
issues been  
covered in  
documentary since*

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*the end of the Cold War? This original new book explores how the sometimes elusive, sometimes dramatic effects of uranium products on the landscape, on architecture, and on social organisation continue to show up on screen, maintaining a record*



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*of moving images that goes back to the early twentieth century. It is the first book to analyse independent documentary films about nuclear energy - it suggests an approach to documentary films as agents of change. Each*

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*chapter of this book focuses on one of ten different documentary films made in Europe and North America since 1989. Each of these films works the material and the ideological heritage of the nuclear power industry into visions of the future.*

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*Dealing with the legacy of how ignorance and neglect led to accidents and failures the films offer different ways of understanding and moving on from the past. The documentary form itself can be understood as a*

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*collective means for the discovery of creative solutions and the communication of new narratives. In the case of these films the concepts of radioactivity and deep time in particular are used to bring together narrative and formal*

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*aesthetics in the  
process of  
reimagining the  
relationships  
between people and  
their environments.  
Focussing on the  
representation of  
radioactive spaces  
in documentary and  
experimental art  
films, the study  
shows how moving*

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*images do more than communicate the risks and opportunities, and the tumultuous history, associated with atomic energy. They embody the effects of Cold War technologies as they persist into the present, acting as a reminder that the*

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*story is not over yet. Primary readership will be academics and students working in environmental communication and in environmental humanities more broadly. For students of independent film or documentary it will*

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*also provide a clear  
picture of  
contemporary  
themes and creative  
practice.*

*NASA Lewis  
Teacher Resource  
Center  
Essays on the  
Transmedia Man of  
Steel  
Educational  
Materials*



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*The Complete  
Anime Guide  
Radioactive  
Documentary  
Japanese Animation  
Film Directory &  
Resource Guide  
Board of Trade  
Journal*

Cultural critics say  
that "science is  
politics by other  
means," arguing that

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the results of scientific inquiry are profoundly shaped by the ideological agendas of powerful elites. They base their claims on historical case studies purporting to show the systematic intrusion of sexist, racist, capitalist, colonialist, and/or professional interests

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into the very content of science. In this hard-hitting collection of essays, contributors offer crisp and detailed critiques of case studies offered by the cultural critics as evidence that scientific results tell us more about social context than they do about the natural

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world. Pulling no punches, they identify numerous crude factual blunders (e.g. that Newton never performed any experiments) and egregious errors of omission, such as the attempt to explain the slow development of fluid dynamics solely in

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terms of gender bias. Where there are positive aspects of a flawed account, or something to be learned from it, they do not hesitate to say so. Their target is shoddy scholarship. Comprising new essays by distinguished scholars of history, philosophy, and

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science, this book raises a lively debate to a new level of seriousness.

To the casual observer, similarities between fan communities and religious believers are difficult to find. Religion is traditional, institutional, and serious; whereas fandom is

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contemporary, individualistic, and fun. Can the robes of nuns and priests be compared to cosplay outfits of Jedi Knights and anime characters? Can travelling to fan conventions be understood as pilgrimages to the shrines of saints? These new essays

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investigate fan activities connected to books, film, and online games, such as Harry Potter-themed weddings, using *The Hobbit* as a sacred text, and taking on heroic roles in *World of Warcraft*. Young Muslim women cosplayers are brought into conversation with



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Chaos magicians who use pop culture tropes and characters. A range of canonical texts, such as *Supernatural*, *Buffy the Vampire Slayer*, and *Sherlock*—are examined in terms of the pleasure and enchantment of repeated viewing. Popular culture is

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revealed to be a fertile source of religious and spiritual creativity in the contemporary world. The geeks will inherit the earth. With well over two hundred episodes and a dozen seasons, The Big Bang Theory is one of America's favorite television series, bringing a new class

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of character to mainstream television: the science nerd. In spite of its evident popularity and influence in shaping public attitudes to science and scientists, there are relatively few books that explore the show's culture and social dimension. The

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Science of The Big Bang Theory looks behind the comedy scenes and scripts of this long-running and successful TV show to explore topics such as: The Bachelor Party Corrosion and Archimedes The Valentino Submergence: Fun with Flags The Dumpling

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Decoupling: Sheldon  
and Doctor WhoThe  
Mystery Date  
Observation: The  
Unlikely Dating  
Habits of  
EggheadsAnd  
More!This book is a  
light-hearted science  
companion to TV's  
The Big Bang Theory,  
providing you with  
just the kind of  
dissection of the

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science and culture  
you'd need to  
understand "math,  
science, history,  
unraveling the  
mysteries, that all  
started with the big  
bang! Hey!"

Freedom and Value  
How Fanatical  
Certitude Is  
Destroying  
Democracy  
Indigenous Science

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Fiction

The Illustrated

London News

Enhancing Science

Education

Episode 6: The Liquid-

Drop Model of the

Nucleus

The Sacred in

Fantastic Fandom

All the

science in

Breaking

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Bad—from  
explosive  
experiments to  
acid-based  
evidence destr  
uction—explain  
ed and  
analyzed for  
authenticity.  
Breaking Bad's  
(anti)hero  
Walter White



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(played by Emmy-winner Bryan Cranston) is a scientist, a high school chemistry teacher who displays a plaque that recognizes his "contributions

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to research  
awarded the  
Nobel Prize.”

During the  
course of five  
seasons, Walt  
practices a  
lot of ad hoc  
chemistry—from  
experiments  
that explode  
to acid-based

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evidence  
destruction to  
an amazing  
repertoire of  
methodologies  
for illicit  
meth making.  
But how much  
of Walt's  
science is  
actually  
scientific? In

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The Science of  
"Breaking  
Bad," Dave  
Trumbore and  
Donna Nelson  
explain,  
analyze, and  
evaluate the  
show's  
portrayal of  
science, from  
the pilot's

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opening credits to the final moments of the series finale. The intent is not, of course, to provide a how-to manual for wannabe meth moguls but to decode the

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show's most head-turning, jaw-dropping moments.

Trumbore, a science and entertainment writer, and Nelson, a professor of chemistry and Breaking Bad's

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science

advisor, are

the perfect

scientific

tour guides.

Trumbore and

Nelson cover

the show's

portrayal of

chemistry,

biology,

physics, and

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subdivisions  
of each area  
including  
toxicology and  
electromagneti  
sm. They  
explain, among  
other things,  
Walt's DIY  
battery  
making; the  
dangers of



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Mylar

balloons; the feasibility of using hydrofluoric acid to dissolve bodies; and the chemistry of methamphetamine itself. Nelson adds

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interesting behind-the-scenes

anecdotes and describes her work with the show's creator and writers.

Marius Stan, who played Bogdan on the show (and who

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is a PhD  
scientist  
himself)  
contributes a  
foreword. This  
is a book for  
every science  
buff who  
appreciated  
the show's  
scientific  
moments and

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every diehard  
Breaking Bad  
fan who  
wondered just  
how smart Walt  
really was.  
This Atom Bomb  
in Me traces  
what it felt  
like to grow  
up suffused  
with American

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nuclear  
culture in and  
around the  
atomic city of  
Oak Ridge,  
Tennessee. As  
a secret city  
during the  
Manhattan  
Project, Oak  
Ridge enriched  
the uranium

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that powered  
Little Boy,  
the bomb that  
destroyed  
Hiroshima. The  
city was a  
major nuclear  
production  
site  
throughout the  
Cold War,  
adding

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something to  
each and every  
bomb in the  
United States  
arsenal. Even  
today, Oak  
Ridge contains  
the world's  
largest supply  
of fissionable  
uranium. The  
granddaughter

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of an atomic  
courier,

Lindsey A.

Freeman turns  
a critical yet  
nostalgic eye  
to the place  
where her  
family was  
sent as part  
of a covert  
government



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plan. Theirs  
was a city  
devoted to  
nuclear  
science within  
a larger  
America  
obsessed with  
its nuclear  
prowess.  
Through  
memories,

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mysterious  
photographs,  
and uncanny  
childhood  
toys, she  
shows how  
Reagan-era  
politics and  
nuclear  
culture  
irradiated the  
late twentieth

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century.

Alternately  
tender and  
alarming, her  
book takes a  
Geiger counter  
to recent  
history,  
reading the  
half-life of  
the atomic  
past as it

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resonates in  
our tense  
nuclear  
present.

Almost  
immediately  
after his  
first  
appearance in  
comic books in  
June 1938,  
Superman began

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to be adapted to other media. The subsequent decades have brought even more adaptations of the Man of Steel, his friends, family, and

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enemies in  
film,  
television,  
comic strip,  
radio, novels,  
video games,  
and even a  
musical. The  
rapid  
adaptation of  
the Man of  
Steel occurred

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before the character and storyworld were fully developed on the comic book page, allowing the adaptations an unprecedented level of freedom and

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adaptability.  
The essays in  
this  
collection  
provide  
specific  
insight into  
the practice  
of adapting  
Superman from  
comic books to  
other media



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and cultural contexts through a variety of methods, including social, economic, and political contexts. Authors touch on subjects

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such as the  
different  
international  
receptions to  
the  
characters,  
the evolution  
of both Clark  
Kent's  
character and  
Superman's  
powers, the

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importance of  
the radio, how  
the  
adaptations  
interact with  
issues such as  
racism and  
Cold War  
paranoia, and  
the role of  
fan fiction in  
the franchise.

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By applying a wide range of critical approaches to adaptation and Superman, this collection offers new insights into our popular entertainment and our

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cultural  
history.  
Exploring  
Knowledge  
Practices with  
Legitimation  
Code Theory  
Media Resource  
Catalog from  
the National  
Audiovisual  
Center

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The Bible in  
Motion

To-day's

Cinema News

and Property

Gazette

The AOA

(Season 1 :

Episode 6)

Study Guide

Nuclear

Physics

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Explained

*Mr. Wizard's  
World. Bill Nye  
the Science Guy.  
NPR's Science  
Friday. These  
popular television  
and radio  
programs  
broadcast science  
into the homes of  
millions of  
viewers and*

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*listeners. But these modern series owe much of their success to the pioneering efforts of early-twentieth-century science shows like Adventures in Science and "Our Friend the Atom." Science on the Air is the*



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*fascinating  
history of the  
evolution of  
popular science  
in the first  
decades of the  
broadcasting era.*

*Marcel*

*Chotkowski*

*LaFollette*

*transports*

*readers to the*

*early days of*

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*radio, when the  
new medium  
allowed  
innovative and  
optimistic  
scientists the  
opportunity to  
broadcast serious  
and dignified  
presentations  
over the  
airwaves. But the  
exponential*

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*growth of  
listenership in  
the 1920s, from  
thousands to  
millions, and the  
networks'  
recognition that  
each listener  
represented a  
potential  
consumer, turned  
science on the  
radio into an*

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*opportunity to entertain, not just educate. Science on the Air chronicles the efforts of science popularizers, from 1923 until the mid-1950s, as they negotiated topic, content, and tone in order to gain precious*

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*time on the air.  
Offering a new  
perspective on  
the collision  
between  
science's  
idealistic and  
elitist view of  
public  
communication  
and the  
unbending  
economics of*

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*broadcasting,  
LaFollette  
rewrites the  
history of the  
public reception  
of science in the  
twentieth century  
and the role that  
scientists and  
their institutions  
have played in  
both encouraging  
and inhibiting*

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*popularization.  
By looking at the  
broadcasting of  
the past, Science  
on the Air raises  
issues of concern  
to all those who  
seek to cultivate  
a scientifically  
literate society  
today.*

*Now open the  
hood to see how*

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*the nucleus works. Start simple with a hydrogen atom, which has a nucleus of one proton orbited by a single electron. Build from there, adding neutrons and more protons, forging elements and*



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*their isotopes and seeing how the nucleus behaves much like a liquid drop. Then use the Fermi gas model to refine your understanding of nuclear structure.*

*Science fiction often operates as*

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*either an extended metaphor for human relationships or as a genuine attempt to encounter the alien Other. Both types of stories tend to rehearse the processes of colonialism, in*

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*which a sympathetic protagonist encounters and tames the unknown. Despite this logic, Native American writers have claimed the genre as a productive space in which they can critique historical*

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*colonialism and  
reassert the value  
of Indigenous  
worldviews.*

*Encountering the  
Sovereign Other  
proposes a new  
theoretical  
framework for  
understanding  
Indigenous  
science fiction,  
placing Native*

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*theorists like  
Vine Deloria Jr.  
and Gregory  
Cajete in  
conversation with  
science fiction  
theorists like  
Darko Suvin,  
David Higgins,  
and Michael  
Pinsky. In  
response to older  
colonial*

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*discourses, many contemporary Indigenous authors insist that readers acknowledge their humanity while recognizing them as distinct peoples who maintain their own cultures, beliefs, and*

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*nationhood. Here author Miriam C. Brown Spiers analyzes four novels: William Sanders's The Ballad of Billy Badass and the Rose of Turkestan, Stephen Graham Jones's It Came from Del Rio, D.*

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*L. Birchfield's  
Field of Honor,  
and Blake M.  
Hausman's  
Riding the Trail  
of Tears.  
Demonstrating  
how Indigenous  
science fiction  
expands the  
boundaries of the  
genre while  
reinforcing the*



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*relevance of  
Indigenous  
knowledge,  
Brown Spiers  
illustrates the use  
of science fiction  
as a critical  
compass for  
navigating and  
surviving the  
distinct  
challenges of the  
twenty-first*

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century.

*Popularizers and  
Personalities on  
Radio and Early  
Television*

*Audio/visual  
Catalog,  
1990-1991*

*The Board of  
Trade Journal  
Journal*

*Women in STEM  
on Television*

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*A Handbook of  
the Bible and Its  
Reception in Film  
A House Built on  
Sand*

**This book helps  
meet an urgent  
need for  
theorized,  
accessible and di  
scipline-sensitive  
publications to  
assist science,**

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**technology,  
engineering and  
mathematics  
educators. The  
book introduces  
Legitimation  
Code Theory  
(LCT) and  
demonstrates  
how it can be  
used to improve  
teaching and  
learning in  
tertiary courses**

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**across the sciences. LCT provides a suite of tools which science educators can employ in order to help their students grasp difficult and dense concepts. The chapters cover a broad range of**

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**subjects,  
including  
biology, physics,  
chemistry and  
mathematics, as  
well as different  
curriculum,  
pedagogy and  
assessment  
practices. This is  
a crucial  
resource for any  
science educator  
who wants to**

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**better**

**understand and  
improve their  
teaching.**

**Fundamentals of  
Environmental  
and Toxicological  
Chemistry:  
Sustainable  
Science, Fourth  
Edition covers  
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