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# **Faster Than The Speed Of Light Story A Scientific Speculation Joao Magueijo**

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Maqueijo  
The mathematical  
representation of General  
Relativity uses a four  
dimensional reference  
frame to position an  
object in time and space  
and tells us time is a

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linear variable that can have both a negative and positive value. This therefore implies time becomes itself a dimension and causes the theory to open doors to ideas such

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as: singularity, wormhole, paradoxes, etc. You will learn from this book a new mathematical model that is being suggested which is based on classical mechanics. The theory is

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objective and predicts low  
scale GPS gravitational  
time dilation, perihelion  
precession disparity,  
gravitational light  
bending, artificial faster-  
than-light motion, up to

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the rotation curve for all  
galaxies, natural faster-  
than-light galactic  
expansion and even the  
constitution of a black  
hole. You will enjoy how  
this book shows Einstein

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to be wrong and how faster-than-light travel is not science-fiction.

A speculative technology might finally give us Faster Than Light (FTL) travel. The proof, if we

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only knew where to look,  
could have been ours by  
now. If hypothetical  
aliens could tell you how  
they traveled to Earth,  
would you be surprised?  
Would the same physics we



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Magueijo  
hold dear be close to  
their hearts too? No, not  
really. According to  
Relativity, we're pretty  
much stuck here in the  
Solar system, and can't  
leave in any meaningful

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way. Hence this book isn't about Relativity or Quantum Mechanics. If you'd like to learn about them, the bookshelves are crammed. What I want to show you is why we don't

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need either one, and why  
would that be very useful  
to us. That's the FTL  
Hypothesis and what this  
book is about. From  
simulated reality to  
basketball games, and from

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Artificial Intelligence to  
pastry shops, analogies  
abound. Yes, analogies are  
incorrect by definition.  
Yet all popular science  
books use them, and  
there's a reason for that.

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So enjoy them for what they are - a help to visualize the idea. The physics paper with FTL equations is at the very end in the "FTL Hypothesis" chapter. No

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analogies are used there of course, but it's still a quick read. Let's talk about about hypothetical exploits of trying to reach other stars. Soon enough, you'll see why

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Maguêijo  
this makes sense in the  
context of the hypothesis.  
Suppose you're a starship  
captain trying to increase  
the speed near Earth. You  
have some great propulsion  
tech, but still, you're

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hitting a “brick wall”.

The speed of light is the  
fastest you can aspire to.  
Now, say you've got an  
idea. You'll take your  
gleaming ship outside the  
Solar system, out to deep



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space. So this is your  
second attempt to see how  
fast you can go. Well,  
you're still hitting a  
"brick wall". There's this  
speed limit you seem to be  
stuck at. But lo and

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behold, this speed limit  
is higher. Maybe it's 17  
times the speed of light.  
And as you go further out  
into deep space, you're  
amazed the limit is  
rising. Your space

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speedometer is now showing  
113 times the speed of  
light! As you're getting  
closer to your  
destination, a nearby star  
with a beautiful planet,  
your top speed is coming

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down, slowly but surely.

Finally, as you enter the final leg of your journey, you're back under the speed of light. According to our science today, this story is purely fictional.

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Maguelij  
It may not be. Idea In a  
nutshell, reality is a  
massively parallel  
computing system. If true,  
we can travel the Galaxy  
the way you fly around the  
world. The idea is that

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every particle, like an  
electron, is a kind of a  
computer of its own, and  
all of them operate in  
parallel. Or simplified,  
the Universe is a  
computer. A very different

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Maguelio  
one, yet it still works by  
processing information,  
just like any other. How  
different is this from  
your garden-variety  
computer, the one you're  
using to read this? Well,

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a lot. I'll give you a  
visual... Simulated trees  
and simulated people  
Imagine a world of  
simulated reality living  
inside your computer,  
being created with some



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really good software, the  
kind of software we will  
soon be able to build.

It's like making a whole  
new Universe, such as in a  
3D game. There are people  
in it, together with

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Maqueijo  
houses, cars, streets,  
trees and the sky. And  
yeah, they have smart  
phones too! Imagine your  
computer is advanced  
enough, so this simulated  
reality is as good as the

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reality we live in. People  
in this reality are  
intelligent and self-  
aware, but they don't know  
they all live in your  
computer... Table of  
Contents Introduction Idea

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Maqueijo  
Simulated trees and  
simulated people

Information within reality  
The difference that makes  
FTL possible When physics  
went the wrong way How to  
travel and communicate

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Faster Than Light Origins  
of gravity and how to  
generate it Some things  
are already Faster Than  
Light How to test FTL  
Hypothesis now Origins of  
Quantum world Origins of

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Relativistic world Summary  
of the hypothesis FTL  
Equation FTL Hypothesis:  
the math Rethinking the  
foundations of physics  
"In science fiction there  
is only a handful of books

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that stretch the mind—and  
this is one of  
them.”—Arthur C. Clarke In  
a moving story of  
sacrifice and triumph,  
human scientists establish  
a relationship with

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intelligent lifeforms—the  
cheela—living on Dragon's  
Egg, a neutron star where  
one Earth hour is  
equivalent to hundreds of  
their years. The cheela  
culturally evolve from



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savagery to the discovery of science, and for a brief time, men are their diligent teachers. Praise for Dragon's Egg "Bob Forward writes in the tradition of Hal Clement's

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Mission of Gravity and  
Maguelio carries it a giant step  
(how else?)

forward.”—Isaac Asimov

“Dragon’s Egg is superb. I  
couldn’t have written it;  
it required too much real

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physics.”—Larry Niven

“This is one for the real  
science-fiction  
fan.”—Frank Herbert

“Robert L. Forward tells a  
good story and asks a  
profound question. If we

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Maguieijo  
run into a race of  
creatures who live a  
hundred years while we  
live an hour, what can  
they say to us or we to  
them?"—Freeman J. Dyson  
"Forward has impeccable

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scientific credentials,  
and . . . big, original,

speculative ideas."—The  
Washington Post

This book tells the human  
story of one of man's  
greatest intellectual

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adventures - how it came  
to be understood that  
light travels at a finite  
speed, so that when we  
look up at the stars, we  
are looking back in time.  
And how the search for a

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God-given absolute frame  
of reference in the  
universe led most  
improbably to Einstein's  
most famous equation  
 $E=mc^2$ , which represents  
the energy that powers the

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stars and nuclear weapons.  
From the ancient Greeks  
measuring the solar  
system, to the theory of  
relativity and satellite  
navigation, the book takes  
the reader on a gripping



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historical journey. We learn how Galileo discovered the moons of Jupiter and used their eclipses as a global clock, allowing travellers to find their Longitude.

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And how Ole Roemer,  
noticing that the eclipses  
were a little late, used  
this to obtain the first  
measurement of the speed  
of light, which takes  
eight minutes to get to us

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from the sun. We move from  
the international  
collaborations to observe  
the Transits of Venus,  
including Cook's voyage to  
Australia, to the  
achievements of Young and

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Fresnel, whose discoveries eventually taught us that light travels as a wave but arrives as a particle, and all the quantum weirdness which follows. In the nineteenth century,

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we find Faraday and  
Maxwell, struggling to  
understand how light can  
propagate through the  
vacuum of space unless it  
is filled with a ghostly  
vortex Aether foam. We

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follow the brilliantly  
gifted experimentalists

Hertz, discoverer of  
radio, Michelson with his  
search for the Aether  
wind, and Foucault and  
Fizeau with their spinning

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mirrors and lightbeams  
across the rooftops of  
Paris. Messaging faster  
than light using quantum  
entanglement, and the  
reality of the quantum  
world, conclude this saga.

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The Infinite Universe  
Turbocharge Your Focus,  
Productivity, and Success  
with the Secrets of the  
ADHD Brain

763 M.P.H.

The Faster Than Light



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Hypothesis  
Faster

Faster Than the Speed of  
Hope

"Wish it. Want it. Do it." is the ultimate  
self help book. Do you wish something?  
Do you want something? Then Do

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something! Take the steps necessary to change your life. Only you can wish it. Only you can want it. You are the only one who can do it.

What's faster than a cheetah?--no animal on earth can run faster. But a peregrine falcon can swoop faster than a cheetah

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Maquieip  
can run. And the falcon can't compare to an airplane, a rocket, or the speed of light.

Whether it's hyperdrive in Star Wars or warp speed in Star Trek, most science-fiction lovers know that in order to travel anywhere in space in a timely manner,

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you've got to go faster than the speed of light. Much of that idea isn't possible, but space scientists have found many ways to speed up human space travel. Through easily understandable explanations and examples of real, cutting-edge technology, this book s

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Scientific Speculation, Ioan  
Maguire  
main content guides readers from the  
fantasy of science fiction to the incredible  
reality of today's science fact.

From the bestselling, National Book  
Award-nominated author of *Genius and  
Chaos*, a bracing work about the  
accelerating pace of change in today's

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world. Most of us suffer some degree of "hurry sickness," a malady that has launched us into the "epoch of the nanosecond," a need-everything-yesterday sphere dominated by cell phones, computers, faxes, and remote controls. Yet for all the hours, minutes,

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and even seconds being saved, we're still filling our days to the point that we have no time for such basic human activities as eating, sex, and relating to our families. Written with fresh insight and thorough research, Faster is a wise and witty look at a harried world not likely to

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slow down anytime soon.

A Fire Upon The Deep

Faster-Than-Light Space Travel

Special Relativity and Motions Faster  
than Light

Faster Than Lightning: My  
Autobiography



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Faster Than The Speed Of... I'm Slow

Maguire  
A 6x9 Inch Softcover Matte Diary

Notebook With 120 Blank Lined Pages

Hergé created only twenty-four  
Tintin books which have been  
translated into more than seventy  
languages and sold 230 million

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The Inspiration Behind Tintin  
takes an in-depth look at the man  
behind the cultural phenomenon  
and the history that helped shape  
these books. As well as focussing  
on the controversies that engulfed

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Magalhães

Hergé, this biography will also look at his personal life, as well as the relationships and experiences that influenced him.

Geoff Johns and Ethan Van Sciver, the writer/artist team behind the blockbuster GREEN LANTERN:

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REBIRTH and THE SINESTRO

CORPS WAR, create an explosive, jaw-dropping epic that reintroduces Barry Allen as The Flash in this volume collecting the fast-paced 6-issue miniseries. But how will this greatest of all Flashes find his

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place in the twenty-first century?  
What's faster than a cheetah?—no  
animal on earth can run faster. But  
a peregrine falcon can swoop faster  
than a cheetah can run. And the  
falcon can't compare to an  
airplane, a rocket, or the speed of

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light. Lively text and watercolors will make children laugh while they learn all about speed.

A theoretical physicist challenges Einstein's Theory of Special Relativity with a new theory on the varying speed of light that suggests

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that light traveled faster in the early universe than it does today, explaining how key problems in cosmology are solved by VSL theory. Reprint.

Faster Than Speed

The Story of a Scientific

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Speculation

Faster Than the Speed of Light  
A Novel

Ymir

Faster Than a Bullet

*Faster Than The Speed  
Of... I'm Slow*

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Maguello  
*MINIMALIST AND STYLISH*

*JOURNAL Whether for your  
desk at home, your work  
or in your bag on the go  
this professionally  
designed 6x9 notebook  
provides the perfect*

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Maquieip  
*platform for you to  
record your thoughts.*

*This Journals pre-lined  
pages are ready and  
waiting to be filled.*

*DETAILS: 120 Blank Lined  
White Pages Simple*

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*Stylish Typographic*

*Cover Art DIMENSIONS:*

*6x9 inches PERFECT FOR:*

*Everyday Dairy Personal*

*Journal Wedding Planning*

*Work Lists Creative*

*Doodles College Planning*

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*This book is for anyone  
who wants a fresh  
approach to modern  
physics. Are you tired  
of amusing anecdotes  
about scientists'  
personal lives and*

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*eureka moments? Bored of  
chronological narratives  
of scientific progress  
through the ages? No  
longer wowed by ideas  
like string theory?  
Interested in first*

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*principles thinking and  
what it can do for you?*

*This book is for you.  
This book is designed to  
take you step by step  
through the fundamental  
principles that underlie*

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*the physics of space,  
time, and matter. It is  
a how-to guide for  
building up our universe  
from first principles.  
By posing questions and  
answering them with*

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*illustrations and  
examples, the book shows  
how we can demonstrate  
what we know about the  
universe with simple  
concepts and thought  
experiments. With this*



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*book, you too can apply  
first principles to  
build up your own model  
of the universe and how  
it works, one you can  
take with you, and apply  
it to other areas of*

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*your life such as your  
job, business, even your  
relationships. There are  
no complicated  
mathematics in this book  
and I have minimized the  
amount of jargon. Thus,*

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*Magueijo*  
*it is suitable anyone of  
any educational  
background from high  
school on. The book aims  
to be straightforward  
about how we get from  
simple ideas to complex*

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*physical theories. So,  
if you are interested in  
a new way of looking at  
the universe and are not  
afraid to unlearn some  
of what you have  
learned, take a look*

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*inside.*

*Maguelio*  
On the night of March  
26, 1938, nuclear  
physicist Ettore  
Majorana boarded a ship,  
cash and passport in  
hand. He was never seen

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again. In *A Brilliant  
Darkness*, theoretical  
physicist João Magueijo  
tells the story of  
*Majorana* and his  
research group, “the *Via  
Panisperna Boys*,” who

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*discovered atomic  
fission in 1934. As  
Majorana, the most  
brilliant of the group,  
began to realize the  
implications of what  
they had found, he*

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*Maguelie*  
became increasingly  
unstable. Did he commit  
suicide that night in  
Palermo? Was he  
kidnapped? Did he stage  
his own death? A  
Brilliant Darkness



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*chronicles Majorana's  
invaluable contributions  
to science—including his  
major discovery, the  
Majorana neutrino—while  
revealing the truth  
behind his fascinating*

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*and tragic life.*

*Compares the speed of  
various animals, from  
humans to cheetahs to  
peregrine falcons, with  
even faster things like  
rockets, meteoroids, and*

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*light.*

*The Flash: Rebirth*

*The Special Theory of  
Relativity Does Not  
Exist*

*Wish It. Want It. Do It.*

*Driving Faster Than the*

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*Speed of Sound*

*The Extraordinary Life  
and Mysterious*

*Disappearance of Ettore  
Majorana, the Troubled  
Genius of the N*

*Faster Than Normal*

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Did you know that a tornado travels faster than a race car? Or that a human and spider travel at the same speed? Full Speed Ahead! is the first picture book to directly compare the speeds of

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animals, modes of transport,  
and forces of nature in a clear  
and visually striking album  
format. Objects are grouped  
from slowest to fastest, with  
objects of the same speed on  
one spread, creating

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Maquieijo  
fascinating “match” races. And  
with a sleek, graphic design  
and vibrant spot-color printing,  
Full Speed Ahead! is as  
gorgeous to look at as it is  
informative to read. On your  
mark, get set, go! Praise for

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Full Speed Ahead "The information will intrigue curious minds." --School Library Journal  
This volume examines the way in which cultural ideas about "the heavens" shape religious ideas and are shaped by them



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in return. Our approaches to cosmology have a profound effect on the way in which we each deal with religious questions and participate in the imaginative work of public and private world-building.

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Employing an interdisciplinary team of international scholars, each chapter shows how religion and cosmology interrelate and matter for real people. Historical and contemporary case studies are

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included to demonstrate the  
lived reality of a variety of faith  
traditions and their interactions  
with the cosmos. This breadth  
of scope allows readers to get  
a unique overview of how  
religion, science and our view

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of space have, and will  
continue to, impact our  
worldviews. Offering a  
comprehensive exploration of  
humanity and its relationship  
with cosmology, this book will  
be an important reference for

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scholars of Religion and  
Science, Religion and Culture,  
Interreligious Dialogue and  
Theology, as well as those  
interested in Science and  
Culture and Public Education.  
"Even though most physicists

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believe that the speed of light is as fast as anyone can go, Einstein's theory of special relativity does not rule out faster-than-light (FTL) travel. On the contrary, it seems to indicate that certain

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Magueijo  
superluminal or FTL effects  
would permit us to re-  
experience the past: time  
travel would become a reality,  
not science fiction. Through  
this crack in the cosmic egg  
steps Herbert, a Stanford

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physicist and author of  
Quantum Reality, who  
summarizes clearly current  
speculation and theory about  
faster-than-light travel. Along  
with space warps, black holes  
and tachyons (hypothetical FTL



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particles), he looks at the so-called 'quantum connection'—an alleged force said to instantaneously link any two subatomic particles long after they have bumped into each other. Free of the

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woolgathering that tints much writing on the 'new physics', this brave, exciting book should send scientists back to their drawing boards; for the nonspecialist reader, it reveals a world much stranger than

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Star Trek."—Publishers Weekly

"Original, challenging, and  
audacious."—San Diego  
Magazine

It is my belief that it is possible  
to travel faster than light. The  
obstacle to this is Einstein's

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Special Theory of Relativity. If  
you are comfortable with  
algebra and Pythagoras then  
this book should be easy to  
follow as the mathematics is  
very basic but of necessity one  
needs to be at least passingly

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familiar with relativity but no more than what you may have come across at high school. Presented here is my analysis of why and where I think Einstein (and Lorentz) were wrong, the outcome of

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which opens the door to faster  
than light travel.

Moving Faster Than the Speed  
of Doubt

Faster Than Sound

Lightspeed

Faster Than Light

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How to Transform Your  
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*A journey through the otherworldly science behind Christopher Nolan's award-winning film, Interstellar, from executive producer and Nobel Prize-winning physicist Kip Thorne. Interstellar, from acclaimed filmmaker Christopher Nolan, takes us on a fantastic voyage far beyond our solar system. Yet in The Science of*



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*Interstellar, Kip Thorne, the Nobel prize-winning physicist who assisted Nolan on the scientific aspects of Interstellar, shows us that the movie's jaw-dropping events and stunning, never-before-attempted visuals are grounded in real science. Thorne shares his experiences working as the science adviser on the film*

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*and then moves on to the science itself. In chapters on wormholes, black holes, interstellar travel, and much more, Thorne's scientific insights—many of them triggered during the actual scripting and shooting of Interstellar—describe the physical laws that govern our universe and the truly astounding phenomena that*

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*those laws make possible. Interstellar and all related characters and elements are trademarks of and © Warner Bros. Entertainment Inc. (s14).*

*A little creature must race to the city and back to trade for supplies for his village before his mount goes into hibernation. Have you heard of anything that is faster*

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*than bullet? Do you know of anything that is faster than a bullet? Can you imagine anything that is faster than a bullet? Have you seen anything that is faster than a bullet? Considering, strange things do happen. Maybe you can answer yes to the question. For example, the lighting striking all across the universe on*

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*a stormy day. You have to see it to believe it. It is so fast, so unbelievable! So is the speed of a flying bullet. It is hard to believe just how fast it travels. It can change one's life in the blink of an eye, so does the power of the Almighty God.*

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of a Scientific Speculation Penguin Group*

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*Dragon's Egg*

*The Inspiration Behind Tintin*

*Intersections of Religion and Astronomy*

*I Am Faster Than the Speed of Something*

*Slower: Journal Notebook*

*Many are Going Nowhere Fast*

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Blank lined 24 lines per page, 120 pages, 6x9 inches, matte-finished cover, and white paper. Get smiles and nice comments and show your light hearted and sarcastic approach to motion physics with this funny I am Faster Than The Speed of Something Slower notebook. Perfect journal

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"Who has the fastest car in the world?"--Back cover.

A refreshingly practical and honest guide that rewrites the script on ADHD Peter Shankman is a busy guy -- a media entrepreneur who runs several businesses, gives keynote speeches around the world, hosts a

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popular podcast, runs marathons and Iron Mans, is a licensed skydiver, dabbles in angel investing, and is loving father to his young daughter. Simply put, he always seems to have more than 24 hours in a day. How does he do it? Peter attributes his unusually high energy level and

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extreme productivity to his ADHD. In  
Faster Than Normal, Shankman  
shares his hard-won insights and  
daily hacks for making ADHD a secret  
weapon for living a full and deeply  
satisfying life. Both inspiring and  
practical, the book presents life rules,  
best practices, and simple but

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powerful ways to: Harness your  
creative energy to generate and  
execute your ideas Direct your  
hyperfocus to get things done  
Identify your pitfalls--and avoid them  
Streamline your daily routine to  
eliminate distractions Use apps and  
other tech innovations to free up your

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time and energy Filled with ingenious  
hacks and supportive self-care advice,  
this is the positive, practical book the  
ADHD community has long needed -  
and is also an invaluable handbook  
for anyone who's sick of feeling  
overwhelmed and wants to drive  
their faster-than-normal brain at

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maximum speed...without crashing.  
Now with a new introduction for the  
Tor Essentials line, A Fire Upon the  
Deep is sure to bring a new  
generation of SF fans to Vinge's  
award-winning works. A Hugo Award-  
winning Novel! “ Vinge is one of the  
best visionary writers of SF

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today. ” -David Brin Thousands of years in the future, humanity is no longer alone in a universe where a mind's potential is determined by its location in space, from superintelligent entities in the Transcend, to the limited minds of the Unthinking Depths, where only

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simple creatures, and technology, can function. Nobody knows what strange force partitioned space into these "regions of thought," but when the warring Straumli realm use an ancient Transcendent artifact as a weapon, they unwittingly unleash an awesome power that destroys



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thousands of worlds and enslaves all natural and artificial intelligence. Fleeing this galactic threat, Ravna crash lands on a strange world with a ship-hold full of cryogenically frozen children, the only survivors from a destroyed space-lab. They are taken captive by the Tines, an alien race

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with a harsh medieval culture, and used as pawns in a ruthless power struggle. Tor books by Vernor Vinge  
Zones of Thought Series A Fire Upon  
The Deep A Deepness In The Sky The  
Children of The Sky Realtime/Bobble  
Series The Peace War Marooned in  
Realtime Other Novels The Witling

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The Science of Interstellar

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A Brilliant Darkness

What If They Help to Find a New  
Space ?

Finite Theory of the Universe, Dark  
Matter Disproof and Faster-Than-  
Light Speed

A 6x9 Inch Softcover Matte Notebook  
Diary With 120 Blank Lined Pages

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Genesis II

*Faster Than Speed Of  
Light* This book will  
introduce you to a  
completely new way of  
thinking of Jinn being  
faster than speed of

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*light. Keep*

*reading. Traveling at a*

*staggering speed of*

*299,792,458 m/s or*

*approximately 300,000*

*km/s in a vacuum, light*

*is the fastest known*

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*particle. While that's  
what scientists have  
been able to prove over  
the years, are you open  
to the possibility that  
there is something  
faster than the speed of*

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*light?. So what is it  
that travels faster than  
light? And is there some  
supporting argument to  
it? Well, Jinns travel  
faster than light and  
there is evidence to*



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*show that. What is Jinn?  
And how is it that it is  
faster than speed of  
light? What supporting  
arguments exist?  
While the theory of  
special relativity is*

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*often associated with  
the idea of traveling  
faster than light, this  
book shows that in all  
these cases subtle  
forces of nature  
conspire to prevent*

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*Magueijo*  
these motions being  
harnessed to send  
signals faster than the  
speed of light. The  
author tackles these  
topics both  
conceptually, with

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*minimal or no*

*mathematics, and*

*quantitatively, making  
use of numerous*

*illustrations to clarify*

*the discussion. The*

*result is a joy to read*

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*Magueijo*  
*for both scientists*  
*familiar with the*  
*subject and laypeople*  
*wishing to understand*  
*something of special*  
*relativity.*

*A gripping, far-future*

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*retelling of Beowulf  
from an award-winning  
author, perfect for fans  
of Richard K. Morgan.  
Yorick never wanted to  
see his homeworld again.  
Thirty years later, he*

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*finds himself sent back to the icy mining colony as a company man—and he can't leave this frozen rock in the dust until he neutralizes the threat. A vicious, long-*

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*forgotten machine has  
newly thawed from the  
ice, and it seems to  
have a mind of its own.  
But as Yorick plumbs the  
depths of of the mines  
and his own past, he*



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*finds a tangled  
conspiracy that's much  
more than he bargained  
for—and its source is  
closer to home than he  
ever could have guessed.  
Digicom 300 ... a*

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*Communications System  
Faster Than the Speed of  
Sound*

*How Fast Things Go  
Superluminal Loopholes  
in Physics*

*Direction is More*

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*Important Than Speed*  
*A First Principles Guide*  
*The Real Hergé*