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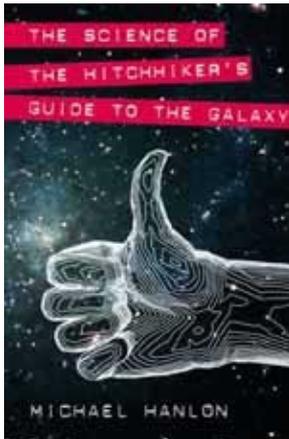
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September 2005

Reviews

## 'The science of the Hitchhiker's Guide'

reviewed by Lewis Dartnell



## The science of the Hitchhiker's Guide to the Galaxy

By Michael Hanlon

Over the last few years there has been a rush of 'The Science of ...' books – popular science titles written to tie in with the recent release of a popular film or book. These include: The Science of The X–files, The Science of Star Wars, The Science of Superheroes, The Science of Supervillains, The Science of Discworld (volumes I, II and III), and The Science of Harry Potter. And into this fray now strides Michael Hanlon with his own offering to the genre. As you might expect, this area of popular science has become a little over–saturated of late, and Hanlon revisits the usual gems of cosmology, time–travel, teleportation, intelligent computers and so on. But the saving grace of this book is that Hanlon pulls it off admirably, and injects an invigorating breath of fresh air into an otherwise stale genre.

The Science of the Hitchhiker's Guide to the Galaxy is divided into themed chapters, each dealing with an issue raised in Douglas Adams' original "trilogy in five parts". The Vogons trigger a discussion on the current search for extraterrestrial intelligence and why we haven't seen any yet, Deep Thought prompts an explanation of artificial intelligence and chess–playing computers (if this interests you see the *Plus* articles [Games people play](#) and [Practice makes perfect](#)), and the Babel Fish introduces the problems encountered with computer

## 'The science of the Hitchhiker's Guide'

translation software and the possibility of a universal language.

A mention of the Restaurant at the End of the Universe and the Big Bang Burger Bar leads into a review of modern cosmology and the fate of the Earth. Here Hanlon explains how the mathematical theories needed to explain the Universe have become steadily more impenetrable: the Newtonian description can be understood at A-level, but modern superstring theories involving M-branes and Calabi-Yau manifolds are utterly incomprehensible to all but a tiny group of mathematicians.

The section about the Heart of Gold and its Infinite Improbability Drive is perhaps of most interest to mathematicians. This sparks a discussion on probability and the general public's perception of chance and what is an acceptable risk – an important area when considering the relative risks of smoking, binge drinking and train disasters. The book is also absolutely littered with astounding facts. For instance, Einstein's relativity is not solely the preserve of future starship captains travelling close to the speed of light: the real-life Russian cosmonauts returning to Earth after a year in orbit had gained full four seconds due to time dilation (for more on this subject, read the article [What's so special about special relativity?](#) in this issue of *Plus*).

Occasionally the links back to items in the HHGTTG are tangential at best, with Hanlon seemingly trying to justify a digression he is interested in writing about. But he appears to have missed a trick entirely in the section describing the Anthropic Principle. The section discusses the fact that the universe around us is apparently fine-tuned to allow the existence of life, a phenomenon that has led some people to believe that our universe was in fact designed to have us in it. One of the wittiest metaphors illustrating this argument comes from Douglas Adams himself, describing a puddle's thoughts on the hollow it finds itself in, but Hanlon omits to quote it. In Adams' own words:

*"It's rather like a puddle waking up one morning – I know they don't normally do this, but allow me, I'm a science fiction writer – A puddle wakes up one morning and thinks: 'This is a very interesting world I find myself in. It fits me very neatly. In fact it fits me so neatly... I mean really precise isn't it... It must have been made to have me in it.'"*

Hanlon has a fine sense of humour, and throughout the book has tried to emulate Adams' distinctive style of writing. In many places this works well and the scientific detail blends in perfectly. In the discussion about what would happen if time-travel were possible and you could journey back to tell someone of a future event, Hanlon creates the enchanting image of a young Einstein running from the room with his hands clamped over his ears shouting "la-la-la". I think that the late Adams would be proud of this book that he never got round to writing himself. For example, the following paragraph describes the world's fastest supercomputer, BlueGene/L:

*BlueGene/L models the safety and efficacy of America's nuclear arsenal. This has become something of the career of choice for the world's fastest computers once it was realised that actually exploding atomic bombs above or below ground was (a) very dangerous, (b) gets you into trouble with pesky environmentalists and (c) violates international treaties anyway.*

Even die-hard fans of the HHGTTG series (in any of its radio, book, TV, computer game, stage production, or film incarnations) will be satisfied by Hanlon's discussion on the actual plausibility of events conjured up by Douglas Adam's fertile imagination. Hanlon has produced a flowing account, and difficult concepts are introduced as gently as slipping into a nice warm bath. However, if you have read any of the  $1.000001 \times 10^6$  similar popular science books of the last few years then it is unlikely that you will encounter a great deal of original material in this one.

### **Book details:**

*The science of the Hitchhiker's Guide to the Galaxy*

## 'The science of the Hitchhiker's Guide'

Michael Hanlon  
hardback – 224 pages (2005)  
Palgrave Macmillan  
ISBN: 1403945772

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Lewis Dartnell read Biological Sciences at Queen's College, Oxford. He is now on a four-year combined MRes–PhD program in Modelling Biological Complexity at University College London's Centre for multidisciplinary science, CoMPLEX. He completed the MRes last year, and is now researching for a PhD in the field of astrobiology. He is using computer models of the magnetic fields on Mars to predict radiation levels, and whether alien life, or even future human explorers, could possibly be surviving near the surface. If you're interested in this subject, read the [interview](#) with Paul Davies in this issue.

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*Plus* is part of the family of activities in the Millennium Mathematics Project, which also includes the [NRICH](#) and [MOTIVATE](#) sites.

The Hitchhiker's Guide to the Galaxy (sometimes referred to as HG2G, HHGTTG, H2G2, or tHGtG) is a comedy science fiction series created by Douglas Adams. Originally a radio comedy broadcast on BBC Radio 4 in 1978, it was later adapted to other formats, including stage shows, novels, comic books, a 1981 TV series, a 1984 video game, and 2005 feature film. The Hitchhiker's Guide to the Galaxy has become an international multi-media phenomenon; the novels are the most widely distributed, having been translated into many languages. The Hitchhiker's Guide is rich in comedic detail and thought-provoking situations and stands up to multiple reads. Required reading for science fiction fans, this book (and its follow-ups) is also sure to please fans of Monty Python, Terry Pratchett's Discworld series, and British sitcoms.

Douglas Adams. The Hitchhiker's Guide to the Galaxy. The history of The Hitchhiker's Guide to the Galaxy is now so complicated that every time I tell it I contradict myself, and whenever I do get it right I'm misquoted. So the publication of this omnibus edition seemed like a good opportunity to set the record straight--or at least firmly crooked. Anything that is put down wrong here is, as far as I'm concerned, wrong for good. Douglas Adams blends comedy and science fiction as a way to approach philosophical topics like the meaning of life and its absurdity. The result is witty, sometimes laugh-out-loud funny that, at the same time, raises interesting and important questions. Adams rarely offers answers, expecting readers to think for themselves. Absurdity and Point of View. Absurdity is a major theme in The Hitchhiker's Guide to the Galaxy. Throughout the novel, things seem to happen randomly, without cause or meaning. Some are highly improbable, while others simply stand reason on its head.