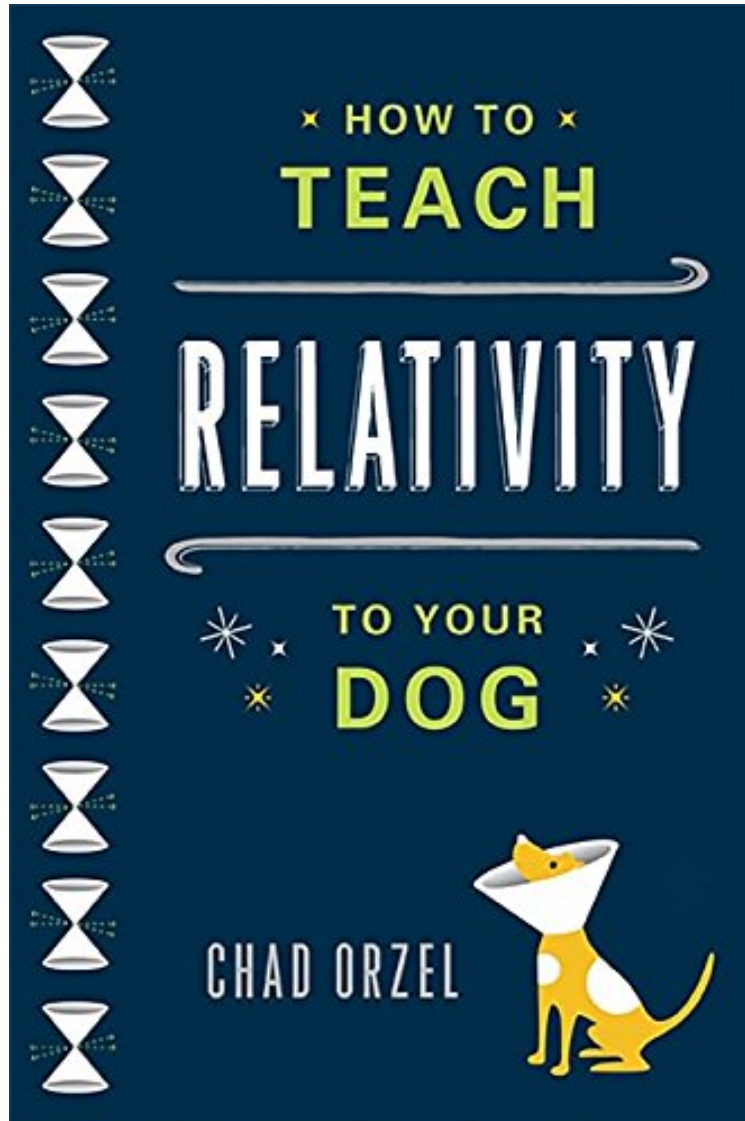


[FREE] How to Teach Relativity to Your Dog

How to Teach Relativity to Your Dog

Chad Orzel

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Chad Orzel : How to Teach Relativity to Your Dog before purchasing it in order to gage whether or not it would be worth my time, and all praised How to Teach Relativity to Your Dog:

1 of 1 people found the following review helpful. Physics class with a furry friend :)By Irene2014Chad Orzel's How to Teach Relativity to Your Dog is a terrific book for anyone wanting to learn more about the elementary physics from the basics of the tehroy of relativity to the speed of light to more complex notions associated with blackholes, the curvature of the universe, and particle science. We also learn what is happening at CERN. Did you know that physicists there have developed conditions to create their own black hole? But to make this physics more fun, Dr.

Orzel presents his teaching to his beloved dog, Emmy. Whether her attempting to trick her master into giving her more treats or making backhanded comments about her number one nemesis, the black cat, Nero, she adds a delightful comic relief that keeps the reader entertained. Dr. Orzel's clever introduction of Emmy further allows us to see how physics plays a key role in the everyday life of humans and dogs and even cats alike. This is one book that can make anyone a physics enthusiast, even those previously wary of science. I can definitely see this work as even a supplement to any physics class, as it is one physics book you will not want to put down as it has one of the cutest and funniest teaching assistants you'll ever have. 0 of 0 people found the following review helpful. Really well done By H. Carroll III bought this as a little surprise for my boyfriend's 14 year old son. He is fascinated by physics, but getting him to read is a struggle. He finished this book in no time and giggled all the way through. 1 of 1 people found the following review helpful. Great book! By Susie V. As a physicist in another field, I thought this was a great conceptual review of the main ideas of relativity. However, I don't think one has to be a physicist to understand! The last chapter was a particularly good summary of the standard model and four forces - all explained in an entertaining, easy to read package.

They say you can't teach an old dog new tricks. But what about relativity? Physics professor Chad Orzel and his inquisitive canine companion, Emmy, tackle the concepts of general relativity in this irresistible introduction to Einstein's physics. Through armchair-and sometimes passenger-seat-conversations with Emmy about the relative speeds of dog and cat motion or the logistics of squirrel-chasing, Orzel translates complex Einsteinian ideas-the slowing of time for a moving observer, the shrinking of moving objects, the effects of gravity on light and time, black holes, the Big Bang, and of course, $E=mc^2$ -into examples simple enough for a dog to understand.

"A clever introduction to the often intimidating concepts of special and general relativity, couched as a series of conversations between the author and his dog, Emmy. It may sound like a strange setup, but the somewhat kooky concept works well for explaining a field of physics that can sound, well, kooky to the uninitiated.... While keeping the math to a minimum, Orzel provides a clear and thorough primer. It might take some practice to start equating subatomic particles to running bunnies, but the reader will find that puzzling through the details is worth the effort."?Science News"Unlike quantum physics, which remains bizarre even to experts, much of relativity makes sense. Thus, Einstein's special relativity merely states that the laws of physics and the speed of light are identical for all observers in smooth motion. This sounds trivial but leads to weird if delightfully comprehensible phenomena, provided someone like Orzel delivers a clear explanation of why."?Kirkus s"With canine humor and math- or physics-related jokes, Orzel keeps readers interested, while teaching the elements of physics that we promptly forgot after we took the test."?Booklist"Readers who enjoy Michio Kaku, Brian Greene, or Neil deGrasse Tyson will love this book. Full of quotes, math jokes, and silly canines, the book strives to make its audience amazed by, not frightened of, physics. With exuberant Emmy at the lead, readers can't help but be dragged (willingly!) toward a better understanding of special and general relativity."?Library Journal"Rather than barking or growling, Emmy leavens the mood with requests for walks; and when the academics get heavy, she interjects to beg for clarification. Obviously, real-life dogs will not walk away from the book with a grasp of the universe's mechanics, but the human sort of non-scientist can get some benefit."?Washington Post"[E]ngaging and readable for a general audience.... I suggest people who balk at the idea of a talking dog but are nevertheless interested in the broad sweep of one of the two great theories of the twentieth and early twenty-first centuries should give this book a chance. After all, every dog has its day."?Nature Physics"Emmy may be one smart dog, but her owner also happens to be an uncommonly gifted communicator. Chad Orzel's treatment of special and general relativity is comprehensive, informative, and amazingly accessible, yet it's funny too. This is, by far, the most entertaining discussion of the subject that I've ever had the pleasure of reading."?Steve Nadis, coauthor of *The Shape of Inner Space*"With Nero, the egocentric cat who believes it is the centre of the universe, and Emmy, the student dog whose questions and misunderstandings would drive any teacher to distraction, and whose interest in relativity is how $E=mc^2$ can turn squirrels into energy, Chad Orzel has created a delightful cast of characters to make his introduction to relativity relatively painless. A cleverly crafted and beautifully explained narrative that guides readers carefully into the depths of relativity. Whether you are a hare or a tortoise, or even a dog, you will enjoy this."?Frank Close, author of *The Infinity Puzzle*"For the price of a book, Orzel delivers the heady, joyful experience of taking a small college class with a brilliant and funny professor who really knows how to teach. A thoroughly winning romp through a rock-solid presentation of a beautiful subject."?Louisa Gilder, author of *The Age of Entanglement*