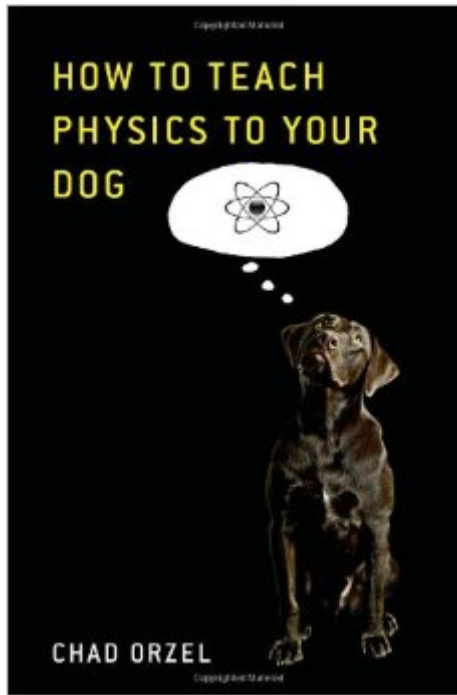


The book was found

How To Teach Physics To Your Dog



Synopsis

When physics professor Chad Orzel went to the pound to adopt a dog, he never imagined Emmy. She wasn't just a friendly mutt who needed a home; she was a talking dog with an active interest in what her new owner did for a living and how it could work for her. Soon Emmy was trying to use the strange ideas of quantum mechanics for the really important things in her life: chasing critters, getting treats, and going for walks. She peppered Chad with questions: Could she use quantum tunneling to get through the neighbor's fence and chase bunnies? What about quantum teleportation to catch squirrels before they climb out of reach? Where are all the universes in which Chad drops steak on the floor? And what about the bunnies made of cheese that ought to be appearing out of nothing in the backyard? With great humor and clarity, Chad Orzel explains to Emmy, and to human readers, just what quantum mechanics is and how it works -- and why, although you can't use it to catch squirrels or eat steak, it's still bizarre, amazing, and important to every dog and human. Follow along as Chad and Emmy discuss the central elements of quantum theory, from particles that behave like waves and Heisenberg's uncertainty principle to entanglement ("spooky action at a distance") and virtual particles. Along the way, they discuss the history of the theory, such as the experiments that discovered that electrons are waves and particles at the same time, and Albert Einstein and Niels Bohr's decades-long debate over what quantum theory really meant (Einstein may have been smarter, but Bohr was right more often). Don't get caught looking less informed than Emmy. "How to Teach Physics to Your Dog" will show you the universe that lies beneath everyday reality, in all its randomness, uncertainty, and wonder. "Forget Schrodinger's Cat," says Emmy, "quantum physics is all about dogs." And once you see quantum physics explained to a dog, you'll never see the world the same way again.

Book Information

Hardcover: 256 pages

Publisher: Scribner; First Edition edition (December 22, 2009)

Language: English

ISBN-10: 1416572287

ISBN-13: 978-1416572282

Product Dimensions: 9.3 x 6.3 x 1 inches

Shipping Weight: 9.9 ounces

Average Customer Review: 4.4 out of 5 stars [See all reviews](#) (87 customer reviews)

Best Sellers Rank: #957,864 in Books (See Top 100 in Books) #74 in [Books > Humor &](#)

Entertainment > Humor > Science & Scientists #891 in Books > Science & Math > Physics > Quantum Theory #4595 in Books > Crafts, Hobbies & Home > Pets & Animal Care > Dogs

Customer Reviews

First let me say that I have a degree in physics and in education. I may not be the typical reader but I think I can provide a reasonable review of this book. The book is a very clear and well delineated explanation of the basics of quantum mechanics. Orzel provides the relevant background needed to understand each section along with a historical outline of how the physics developed. His teaching is lucid and straightforward (think Carl Sagan or Isaac Asimov). The examples and questions are provided outlined in a tongue in cheek manner as discussions with his dog. I am somewhat torn about the verbiage relating to his dog, it is sometimes funny, but can also be distracting. I think in the classroom the humor would come across more consistently. It does add a level of absurdity to the book, and if quantum mechanics is anything, it is sometimes quite absurd to those of us living our daily lives in a classical world. I also laughed out loud many times while reading the chapter on debunking the snake oil salesmen who try to use various garbled versions of quantum mechanics to explain how their gizmos can provide "free energy" or "improve your health". I have had a lot of conversations with people about these contraptions (and those Amish space heaters advertized in the paper all the time, but that is another issue). The historical perspective in each section is excellent, specifically the development of wave/particle duality and the Copenhagen interpretation. Orzel's presentation of the manner in which theories are developed and tested is superb. For students this is may be eye opening, many of them seem to believe that science develops in a linear and straightforward manner and the examples presented by Orzel show the more convoluted path often taken.

Writing a book about physics for laymen can always be a difficult task. I have read more than I can count. Books can either be too technical and unapproachable to be of interest to the lay person, or they can be so silly and irrelevant that not enough meaty information is contained within. As a background on myself, I am an engineer by training, and as a wise man on Magrathea once said, "I am a great fan of science." The book itself is geared towards somebody with a decent knowledge of physics and math, but not necessarily quantum mechanics. I would say high-school level should be fine, but then again, with what passes for high school education, it's possible that it could be beyond some people (some may have issue with words like exponential). The reader should note that the book is really "How to Teach Quantum Mechanics To Your Dog" as Physics in general is not

covered (and it even avoids relativity). This is not a negative, but just an FYI. Overall, excellent book---I probably picked up something new in every chapter. Some of the science was familiar, though I was not aware of all the players and fun stories involved. For the science I knew, I appreciated having a good way to explain it to friends and family. As the book progressed, I discovered new things about quantum mechanics which I did not know. You'll learn about how the most often referenced piece of quantum mechanics (Heisenberg Uncertainty Principle) is also the most misunderstood. You'll also learn not only about Schrodinger's Cat, but also his many women (who knew physicists were like that?).

[Download to continue reading...](#)

Bonding with Your Rescue Dog: Decoding and Influencing Dog Behavior (Dog Training and Dog Care Series Book 1) Homemade Healthy Dog Food Food Recipes (Because Your Dog Deserves The Best All Natural Dog Food and Health Dog Recipes!) Easy Homemade Dog Treat Recipes: Fun Homemade Dog Treats for the Busy Pet Lover (Dog Training and Dog Care Series Book 2) Dog Training: 50 Dog Smart Tricks (Free 130+ Dog Recipe Book Inside): Step by Step Activities for Full engagement, Fun and Increased Dog IQ Brain Games for Dogs: Training, Tricks and Activities for your Dog's Physical and Mental wellness(Dog training, Puppy training, Pet training books, Puppy ... games for dogs, How to train a dog Book 1) How to Teach Quantum Physics to Your Dog How to Teach Physics to Your Dog The Right Dog for the Job: Ira's Path from Service Dog to Guide Dog Dog Training: Puppy Training Tips For an Obedient and Happy Family Member (Dog Grooming, Dog Tricks, Stuffed Animals) (Volume 1) The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Puppy Training: 10 Worst Puppy Training Mistakes That Can Ruin Your Dog (And How To Train Them Right) (puppy training, dog training, puppy house breaking, ... training a puppy, how to train your puppy) PUPPY TRAINING: DOG TRAINING: Crash Course in Training Your Dog in Days, Housebreak and Obedience Puppy Training Guide Book Puppy Training: The Complete Guide To Housebreak Your Puppy in Just 7 Days: puppy training, dog training, puppy house breaking, puppy housetraining, house ... training, puppy training guide, dog tricks) The Dog Vinci Code: Unlock the Secrets to Training Your Dog Dog Training: The Smart Way: Your Complete Dog Training Guide for Any Breed or Age (+ 3 FREE GUIDES) Tell Your Dog You're Pregnant: An Essential Guide for Dog Owners Who Are Expecting a Baby Your Dog's Golden Years: - Manual for Senior Dog Care Including Natural Remedies and Complementary Options Treat Your Dog Right: Best Ever Homemade Dog Treat Recipes Puppy Training: How To Train a Puppy: A Step-by-Step Guide to Positive Puppy Training (Dog training, Puppy training, Puppy house training, Puppy training ... your

dog,Puppy training books Book 3) Fast Dog Training: 17 Quick Ways To Train Your New Dog In Under 10 Minutes!

[Dmca](#)