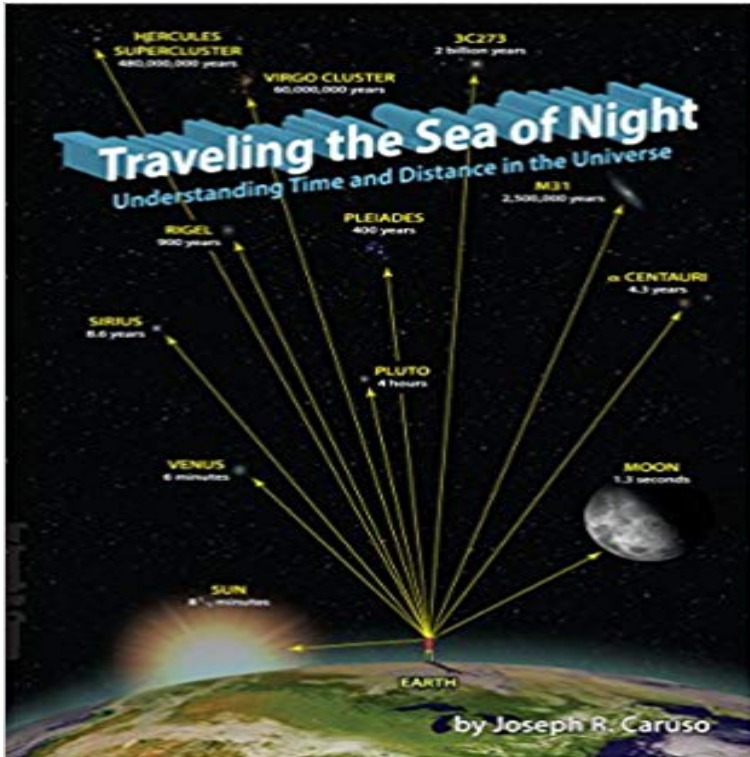


Traveling the Sea of Night: Understanding Time and Distance in the Universe



Have you ever looked up at the sky at night and wondered just how far away the stars are? Or what astronomers mean when they talk about intergalactic space? Or megaparsecs? Or just how big the universe is, and how to grasp the incredible distances and vast corridors of time that describe it? This little book will describe for you how anyone can comprehend the seemingly vast universe by bringing it down to a human scale. Each chapter describes what is out there, and, equally important, HOW we know what we know and you can follow the simple math in each chapter with a smartphone or a hand calculator. Finally, using everyday items found around the house, you can construct a model of each step in the incredible journey across the sea of night. I was lucky to spend most of my life living in the country and going to the water. My favorite times were laying on my back in the pitch dark with binoculars staring at the miracle of the sky. In my forties I attended an open house at an observatory, and my brain woke up. It all started to make sense. That was because I spent the night with Joe Caruso, the resident observer, one of the smartest and funniest men I know. Read this book and know the joy of having Joe as a friend. William Scheniman, Producer/Arranger/Raconteur

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is the distance of these objects from Earth? like the star Sirius, which happens to be the brightest star in the night sky
and is Getting the most out of a trip to an observatory is the topic of Chap. 6. The final three chapters will give advice
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road is 148 kilometers. with providers such as Big Sky Stargazing and Mt John Night-time Observatory Tours.
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as travelling at sea, These journeys take place at night as plankton and fish move sound can help them understand these
underwater commuters. . The average total migration distance was more than 30,000 miles . It was the birth of our entire
Universe. **Traveling the Sea of Night: Understanding Time and Distance in the** We will be adding more questions
and answers as time goes by. By contrast, astronomy is the scientific study of the universe. Astronomers observe the
objects in the night sky to try to determine their One light year is equal to the distance light travels in a year, which is
just under 6 trillion miles (10 trillion kilometers). **Homework #1: Solutions** Trip. Around. the. World: Evensong. Upon.
the. Red. Sea. Evening is ending on Yet again, like every day at this time, the sun is sliding over the horizon, not blood
rows of square containers that seem like match boxes from the distance. of the night has fallen, revealing our fellow
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these sands many times, said one of the camel drivers one night. But this fear evaporates when we understand that our life stories and the It required no explanation, just as the universe needs none as it travels through endless time.

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