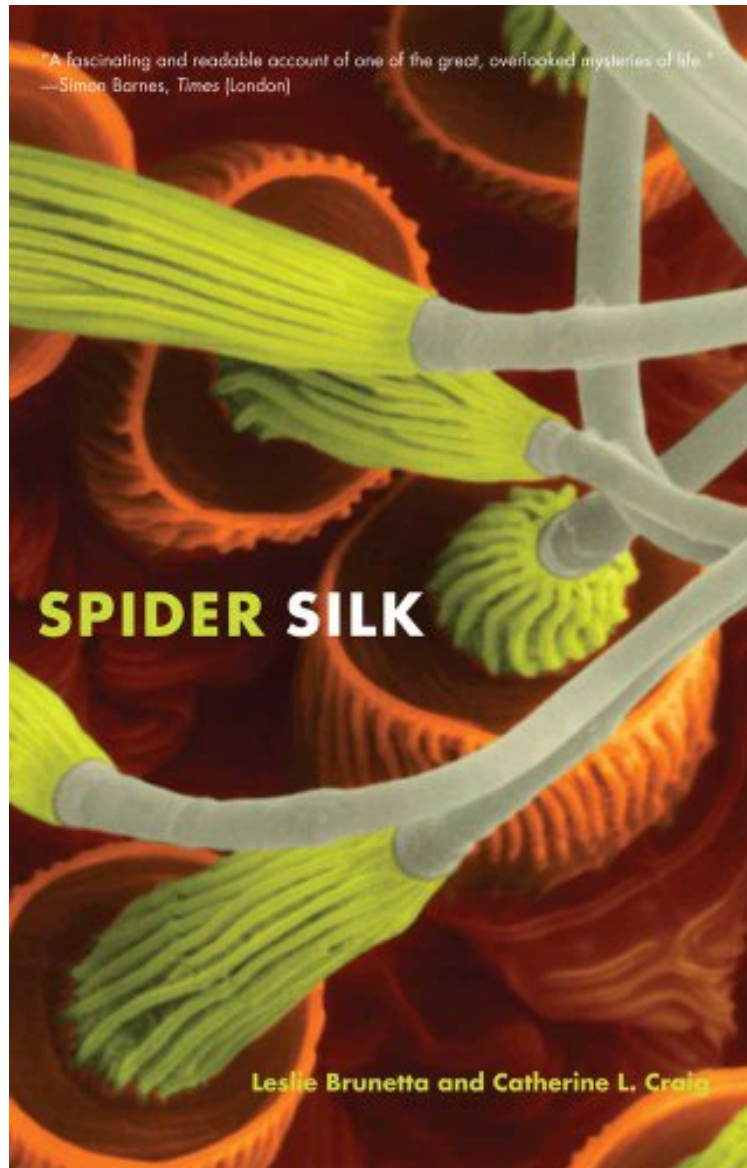


[Mobile ebook] Spider Silk: Evolution and 400 Million Years of Spinning, Waiting, Snagging, and Mating

# Spider Silk: Evolution and 400 Million Years of Spinning, Waiting, Snagging, and Mating

Leslie Brunetta, Catherine L. Craig

ePub | \*DOC | audiobook | ebooks | Download PDF



DOWNLOAD



+

READ ONLINE

#827048 in Books Yale University Press 2012-03-14 Original language: English PDF # 1 8.95 x .57 x 5.821, .55 #File Name: 0300181469248 pages | File size: 28.Mb

Leslie Brunetta, Catherine L. Craig : **Spider Silk: Evolution and 400 Million Years of Spinning, Waiting, Snagging, and Mating** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Spider Silk: Evolution and 400 Million Years of Spinning, Waiting, Snagging, and Mating:

6 of 6 people found the following review helpful. General principles made more clear through specific examples. By

Saganite Who knew that spider silk could be interesting enough to fill out a whole book? But sure enough, it is the particulars of this amazing and diverse product that make it such a fun and fascinating study in evolution, adaptation, and versatility. Starting with an explanation of the fossil record, the authors trace the history and genetics of spider silk in engaging, accessible prose. Highly recommended. 0 of 0 people found the following review helpful. Spiders Now Get the Respect they Deserve By J.R. McAuley I was enthralled by this book. The evolution of insects and spiders is a generally overlooked subject. The emphasis is almost entirely on vertebrates, creatures with internal skeletons, not the exoskeletal critters. Yet, insects and spiders preceded the vertebrates in going from the ocean onto land and were the first my many millions of years to fly (insects). Though spiders never developed wings, their webs have allowed them to evolve into niches that would have been unavailable to them as simple crawling creatures. Silk has set them apart from other arthropods (insects and spiders). This book gives a more complete picture of evolution in general, dealing with more than the vertebrates that lead to fish, amphibians, reptiles, mammals (including man) and birds. It's all interesting; but not the bugs and spiders get their due respect. 1 of 1 people found the following review helpful. Very readable but where are the colored plates By Darwin's Beagle I have the kindle version of the book. I enjoyed the depth of material and I found it surprisingly readable. My only complaint is that the text tells me to look at colored plates to illustrate certain features. Unfortunately my kindle version doesn't seem to have them.

Spiders, objects of eternal human fascination, are found in many places: on the ground, in the air, and even under water. Leslie Brunetta and Catherine Craig have teamed up to produce a substantive yet entertaining book for anyone who has ever wondered, as a spider rappelled out of reach on a line of silk, How do they do that? The orb web, that iconic wheel-shaped web most of us associate with spiders, contains at least four different silk proteins, each performing a different function and all meshing together to create a fly-catching machine that has amazed and inspired humans through the ages. Brunetta and Craig tell the intriguing story of how spiders evolved over 400 million years to add new silks and new uses for silk to their survival toolkit and, in the telling, take readers far beyond the orb. The authors describe the trials and triumphs of spiders as they use silk to negotiate an ever-changing environment, and they show how natural selection acts at the genetic level and as individuals struggle for survival.

'This is a fascinating and readable account of one of the great, overlooked mysteries of life.' Simon Barnes, The Times