

The Top Floor is Out of This World 太空电梯，直达云霄

Launching rockets into outer space requires a lot of scientific knowledge and is extremely expensive. It costs up to US\$20,000 to put a single kilogram into space. There is a way to change that, but when they first hear about it, people think it is a crazy idea.

想发射火箭至外层空间，不但需要渊博的科学知识，而且代价昂贵。将物品运送至外层空间的费用高达每公斤两万美元。有个方法可以改变现状，但当这个想法第一次被提出时，大家认为那真是太疯狂了。

In 1985, the science-fiction writer [Arthur C. Clarke](#) said that “the space elevator will be built about 50 years after everyone stops laughing.” In 2003, he changed his **prediction** slightly and said, “It’ll be about ten years after everybody stops laughing, and I think they have [already] stopped.”

1985年，科幻小说家克拉克说：「太空电梯将在人们停止嘲笑这个点子后，再过五十年完成。」2003年时，他稍稍修正了预测：「太空电梯将在人们停止嘲笑这个点子后，再过十年完成。而且，我认为大家已不再讥笑了。」

But how can this be possible? Think of a very long cable with a large weight tied to one end. Launch this weight into space high enough so that it will orbit the earth, and bring the cable back to earth and tie it **in place** at the **equator**. Once this is done, a vehicle could **literally** drive up into and down from space. It would be A space elevator!

但这怎么办到呢？想象一条非常长的缆线，尾端绑着巨大沉甸甸的重物，将这个重物向上高射，直到它环绕地球。然后，将这个缆线拉回地球，并且将它固定在赤道。一旦完成后，就真的可以驾驶运输工具进入太空，并且再回到地球。这将是一座……太空电梯！

The biggest problem with that **concept**, however, was finding a material strong enough for the cable. That’s not a problem anymore, thanks to a new technology called [carbon nanotubes](#), which may provide to have the right strength. If the space elevator can be built, the cost of sending one kilogram into space would drop to as low as a few hundred dollars. It would be **invaluable** for scientific exploration as well as for **missions** to the moon or [Mars](#). It is an exciting possibility that might just become reality in the near future!

然而，这个概念的最大问题在于，如何找到够强韧的物质来做缆线。但由于「奈米碳管」这项新科技的问世，这个问题已不存在。奈米碳管经证实可能拥有足够的强韧度。如果真的能够建造太空电梯，那么将物品运送至太空的每公斤成本将会大幅下降至数百美元。这对科学探险，还有月球及火星任务将珍贵无比。这令人兴奋的可能性，将在不久的将来实现。

—by Joseph Schier

Vocabulary

literally [ˈlɪtərəli] adv. 正确地；实在地，不加夸张地

prediction [prɪˈdɪkʃən] n. 预言

invaluable [ɪnˈvæljuəbəl] adj. 无价的

More Information

launch [lɒntʃ] v. 发射

in place 在正确的地方 prepared; **available**

equator [ɪˈkwetəː] n. 赤道

concept [ˈkɒnsɛpt] n. 概念; 观念

mission [ˈmɪʃən] n. 任务