

Genius 131

Chapter 131 - Improved Lithium Battery_1

It's just that Qin Fang's book-flipping speed was truly frightening, the fluttering noise drawing the curious and astonished gazes of the surrounding classmates.

"Fangfang, are you okay..."

Tang Feifei also felt that something was amiss and gently nudged Qin Fang, asking with some concern.

"I'm fine! What's up?"

Qin Fang didn't feel anything was amiss, his head didn't even turn as he kept his focus on the book, quickly flipping to the next page.

"Are you sure you're okay?"

The more he acted this way, the more abnormal it seemed. Tang Feifei grabbed Qin Fang's hand to stop him from flipping any further, asking with an extremely uncertain tone.

"I really am fine!"

Only now did Qin Fang notice the looks from those around him and gave a wry smile, glancing at the speed of his page-turning; he had already gone through dozens of pages in just a short while. A textbook was only a few hundred pages in total, and at this rate, he would finish the entire book before the class was over.

"That's good, but don't scare me like that again next time!"

Seeing Qin Fang finally settle down, Tang Feifei breathed a sigh of relief, her mind no longer on the lecture. She held Qin Fang's hand tightly, as if afraid he would start acting silly again.

Clearly, it was now impossible for Qin Fang to continue studying English, and his Proficiency could only grow to this extent. But the teacher on the stage had just begun the first page, leaving Qin Fang, who had memorized even the punctuation, feeling utterly bored.

Glancing at Xiao Nan, who surprisingly wasn't sleeping and seemed to be listening intently, it didn't seem appropriate to chat with him, so after some thought, Qin Fang pulled out his cellphone, intending to pass the time with it.

"Crap, my phone's about to die..."

Unfortunately, as soon as Qin Fang took out his phone, he was dismayed to find it was low on battery. Playing with it would probably kill the phone in minutes.

"Use my phone! Or I can give you my battery to replace with yours..."

Tang Feifei was very considerate, reaching into her small bag to hand over her phone to Qin Fang.

Originally, Tang Feifei didn't care much about what kind of phone she used, but ever since Qin Fang started using an iPhone, she also specially switched to the same model with the same configuration Qin had, even setting similar ringtone options.

"Oh, now I remember..."

Seeing Tang Feifei turning off her phone to remove the battery, Qin Fang suddenly remembered that he had been pondering over the improvement of lithium battery technology but hadn't started due to his low Repair Skill Proficiency. Now with nothing better to do, Qin Fang decided to get to work.

"Fangfang, what are you doing?"

Just as Tang Feifei had taken out her phone's battery and was about to hand it to Qin Fang, she was surprised to find Qin Fang disassembling his own phone.

"Remember what I told you last time? I want to research it a bit!"

With the place being noisy and crowded, Qin Fang couldn't speak too directly and muttered softly into Tang Feifei's ear.

"Oh! But you don't have any tools..."

They had come to class, so aside from paper, pens, and textbooks, they really didn't bring any other items, "How did you manage to disassemble the phone..."

But before Tang Feifei could finish her sentence, she was shocked to see that Qin Fang had already taken his phone apart and seemed ready to further disassemble it, as if determined not to stop until the phone was reduced to parts.

"Hehe, who says I don't have tools? Isn't this one?"

Qin Fang laughed and held up items like nail clippers, ear picks, keys, and clasps. He had used these to disassemble a still-new phone into a pile of parts.

"That works..."

Tang Feifei's face was a picture of astonishment; she had never seen such a feat before, using these utterly unconventional "tools" to disassemble a precisely assembled phone.

The phone was quickly disassembled. Qin Fang didn't touch the circuit board because, firstly, those components were quite delicate and using these rather crude tools might easily cause unnecessary damage, and secondly, it was somewhat irrelevant to his research objective. He intended to study the battery and only needed to understand the phone's structure, power supply lines, etc.

"Feifei, do you have any small items with you? Like earrings, hairpins, or something like that..."

Having disassembled the phone, the next step was to disassemble the battery, which was slightly more complex than the phone. Qin Fang's "tools" were not quite suitable, so he had to seek help from Tang Feifei.

"Yes, I have..."

Tang Feifei immediately nodded and then opened her small carry-on bag, rummaging through it. She had left home early in the morning to wake Qin Fang, not bringing any earrings, and since she often wore her hair down or tied back in a small braid, she rarely used hairpins and naturally didn't have any.

In the end, she found a few safety pins and asked cautiously, afraid that Qin Fang would get angry, "Will these work?"

"Perfect! These are just what I need..."

Qin Fang had actually wanted some kind of pin, but he knew that most girls these days didn't do needlework, so he didn't expect them to have any and had settled for the next best thing. He didn't expect to actually get safety pins, but at least their pointed ends would do.

With better "tools," Qin Fang's efficiency improved significantly. In no time, he had taken apart his phone battery into a bunch of parts and also disassembled the battery given to him by Tang Feifei.

Lithium-ion batteries are a type of battery using lithium metal or lithium alloy as the negative electrode material and non-aqueous electrolyte solution. Although there are many different nominal materials for lithium battery anodes today, the one with commercial value and most widely used is carbon anode material.

The lithium batteries from the two phones in Qin Fang's hands were exactly like this.

Of course, many battery companies are researching and developing lithium batteries using nanomaterials as the anode. However, most of them are still at the laboratory stage and have not yet created substantial commercial value. It will be a long road before they can be widely marketed.

Qin Fang clearly did not have the research conditions to pursue this further, and his limited proficiency also constrained the extent of his research. Even when he knew how to make improvements, he still could not meet the requirements.

However, the power of repair skill truly shone at such moments; even faced with a relatively simple lithium battery facility and under such rudimentary conditions, there was still a way to make improvements.

The improvement proposal given by the repair skill was called "positive and negative electrode bridging interchange." Qin Fang didn't understand the underlying principle and even considered the possibility that such technology hadn't been discovered by humanity. All he could do was to follow the steps outlined by the repair skill.

This improvement plan was rather primitive, and the operation technique was very simple. Qin Fang merely followed the prompts to set up some incomprehensible connecting circuits inside, then reassembled the battery and the phone.

"Is it fixed now?"

Tang Feifei had been watching silently all this time, not daring to make a sound for fear of disrupting Qin Fang's thoughts. But when he reassembled the phone and put the battery back, she couldn't help but ask.

From her perspective, besides taking apart the phone and battery, Qin Fang had only poked around inside the battery with the pointed end of the safety pin she provided. Whether he had damaged it or not was unknown, but she found it unbelievable that such tinkering could improve the lithium battery.

It's not that she lacked confidence in Qin Fang; it was just too incredible to believe. If it were that simple, why would world-class battery companies spend so much to develop more advanced technologies?

"Heh, we'll know if it worked right away!"

After Qin Fang finished, he immediately turned the phone on. Regarding Tang Feifei's doubt, he was also very skeptical.

He didn't doubt the reliability of the repair skill but worried that his execution might not be skilled enough to meet the requirements, which could result in the improvement plan failing.

Of course, he also held some confidence, mainly because the plan was incredibly simple. So simple that it seemed like nothing was changed at all.

"Huh, it's turned on. Let me see... full battery?"

While they were talking, the phone booted up again. Tang Feifei immediately, a bit nervously, took the phone from Qin Fang and was surprised to find the battery was full again.

"Fangfang, did you install the wrong battery?"

Before Qin Fang's phone battery was nearly empty, whereas hers was full. But now, the display showed full battery. After waiting a few minutes, and after Tang Feifei had performed some system operations, the battery level remained full, prompting her to ask in confusion.

Qin Fang couldn't help but roll his eyes. Could he have made such a mistake?

He had carefully distinguished the two batteries and their respective parts to avoid any assembly mistakes. As for why the battery showed as full now, Qin Fang was also puzzled.

"Stop being so paranoid. I've heard that when these lithium batteries show empty, they generally still have at least a third of the charge left. That means the actual used capacity might not exceed two-thirds. Plus, batteries often use up a lot even when they display as full, so it looking full now is quite normal..."

Just then, Xiao Nan, who had been "attentively listening" all along, suddenly turned around and interjected, "I say, Fourth Brother, who did you learn this fantastic trick from?"