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ABSTRACT

School buildings tend to collapse and suffer heavy damages when earthquakes occur. In the past, a lot of students lost their lives due to their school collapsing. Some of the students escaped injury or even death solely because their school was destroyed outside of their school hours. (JE Rodgers, 2012). The significance of this research lies in developing a transformative chair that can mitigate the loss of life among students during earthquake incidents in school settings. The researchers designed and tested the anti-debris chair using cutting-edge tools like AutoCAD, prioritizing innovation, usability, and safety that resulted in a chair that sets a high standard for reliability, durability, and crucial safety in challenging situations. Our study produced significant results, demonstrating the successful development of an earthquake-resistant, anti-debris chair with remarkable stability during testing. These findings are crucial, potentially reducing injuries and saving lives in earthquake-prone areas. Our study enhances disaster preparedness and resilience by providing a practical solution to earthquake-related safety concerns.

INTRODUCTION

Earthquakes are a natural phenomenon that causes minor to major destruction. Earthquakes happen because of the tectonic plates all over Earth that constantly move. Until now, earthquakes still can't be predicted, taking people by surprise whenever an earthquake occurs. Earthquakes range in intensity, there are those so weak that they can't be felt, and there are also those so strong that they cause destruction.

Earthquakes have the potential to cause devastation leading to the loss of both infrastructure and human lives. Within a matter of minutes, earthquakes can claim lives. Leave people without their homes or even their loved ones. In addition, to this, if an earthquake is powerful enough, it can also result in the destruction of school buildings. Earthquakes have the ability to cause damage to buildings resulting in loss of life. Lives can be lost within minutes due to the force of earthquakes. Additionally, homes and loved ones are often lost due to these events. It is important to note that school buildings are also vulnerable and can be destroyed by earthquakes.

School buildings tend to collapse and suffer heavy damage when earthquakes occur. In the past, a lot of students lost their lives due to their school collapsing. Some of the students escaped injury or even death solely because their school was destroyed outside of their school hours.(JE Rodgers, 2012). There are plenty of earthquake drills held, but that isn't enough to prevent a lot of children from losing their lives when their school collapses due to an earthquake.

The material often used in school armchairs is wood. Wood is often a superior choice over metal in furniture construction due to its unique blend of characteristics. Wood offers a timeless aesthetic appeal that can add warmth and charm to any

space. Its versatility allows for various styles, intricate designs, and customization options, making it ideal for creating furniture that compliments diverse interior decor. Wood provides a level of comfort that is hard to match with metal, especially in seating furniture. Moreover, wood does not absorb heat to the same extent as metal, which means wooden furniture is less prone to becoming uncomfortably hot or cold in extreme temperatures. Additionally, wood's natural resistance to rust sets it apart from metal, which can corrode and deteriorate over time. This quality ensures that wooden furniture remains durable and maintains its structural integrity, making it a reliable and long-lasting choice.

Wood density turned out to have only a subsidiary effect on structural integrity but is dominating standard strength properties. Thus, RIM was found to be only slightly correlated with impact bending strength (IBS) and bending strength (MOR) (Brischke, Christian. 2017). On the other hand, the method shows clear insensitivity to natural variation in the anatomy of wood. It is also an eco-friendly option when responsibly sourced, supports sustainability, and can be easily repaired if damaged. These qualities, along with the historical significance of wooden furniture, contribute to its enduring popularity and preference in the world of interior design and furniture making.

In line with this, the researchers developed a versatile armchair capable of serving as a school chair and transforming into a compact shelter for a child during an earthquake. One side of the armchair's seat can be raised, creating a small, secure space underneath. This design ensures that debris will not accumulate on top of the concealed area, enhancing safety in emergency situations.

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