

The land mine

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Abstract

In this paper, I describe the land mine.
The paper ends with "The End"

Introduction

In previous papers, I've described many weapons and armaments of both attack and defence. However, after guns and bullets (of all shapes and sizes), the armaments of combat that are most used in practice worldwide, are those of **geo-strategic defence**, i.e., **the land mine** and **the depth charge**, because **defending a land border and/or naval position is far easier** for any military to than to **gain new territory**.

In this paper, I describe the land mine.

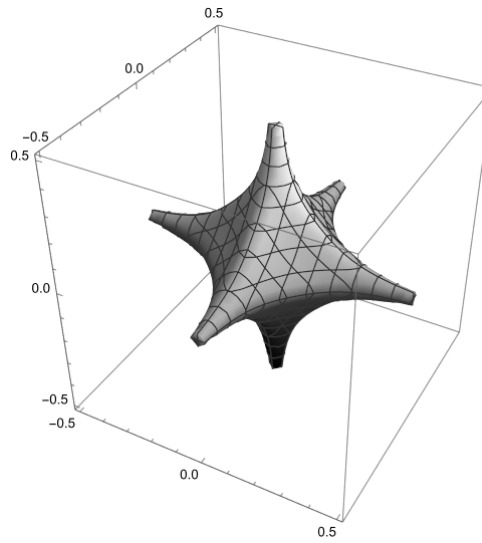
The land mine

The land mine is a **shaped explosive** that operates when **pressure sensors** on/around it are **triggered** by the **weight** of enemy soldiers and/or vehicles.

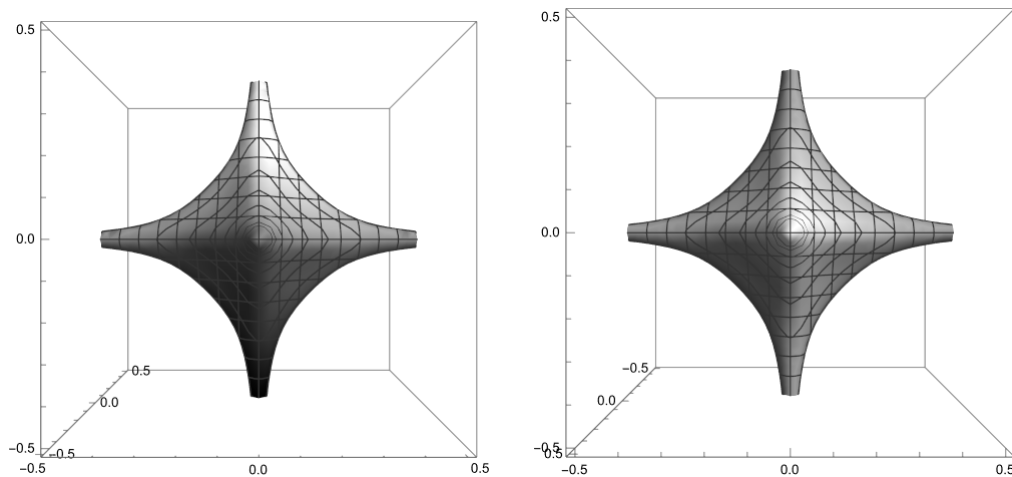
The equation of **the land mine** is

$$25000 (x^4 y^2 + y^4 z^2 + z^4 y^2 + x^4 z^2 + y^4 x^2 + z^4 x^2 + 18x^2 y^2 z^2) = \rho$$

where ρ is **the mine constant**.



A land mine with $\rho = 1$



The use of land mines

Friendly neighbouring nations often have a **"no mines clause"** in their mutual defence treaties so that their economic ties enable trade and free movement of labour across their borders. However, since the **ultimate responsibility** of the use of mines is on **border forces and/or coast guards** of at least two nations, there's always **ambiguity** in the travel of labour through **non-official modes of transport** between two nations, especially during periods of conflict or when war is expected.

However, whenever war is expected, soldiers from both sides **invariably mine the areas** around the land border and/or shore line and **pull back** to a safe distance, which slows advancing forces **considerably**, sometimes even **ending** a nascent war. However, doing so comes at the cost of creating a **no man's land** which is **detrimental** to future economic ties and trade between the nations. Thus, the controversial nature of the use of land mines is clear.

Conclusion

The use of land mines is **controversial**, but as of this writing, militaries worldwide continue to use them **in practice**. International use of land mines and depth charges worldwide is **not** going to decline any soon.

The End