

**Problem 1.10.** *Writing the wave operator in four real variables as*

$$\square = \left[ \frac{\partial^2}{\partial t^2} - \left( \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2} \right) \right] \mathbb{I}_{2 \times 2},$$

*find four elements  $A, B, C, D \in \mathbb{K}$  defined in Problem 1.4, so that*

$$\square = \left( \frac{\partial}{\partial t} A + \frac{\partial}{\partial x} B + \frac{\partial}{\partial y} C + \frac{\partial}{\partial z} D \right)^2$$

1

**Problem 1.4.** *Prove that the quaternions*

$$\mathbb{K} \equiv \{x \cdot 1 + y \cdot i + z \cdot j + w \cdot k \mid x, y, z, w \in \mathbb{R}\}$$

*form a skew field, with the usual vector addition and multiplication defined by  $i^2 = j^2 = k^2 = -1$ ,  $ij = -ji = k$ ,  $jk = -kj = i$ ,  $ki = -ik = j$ .*

# Abstract Algebra Problems With Solutions

**Emilie Sanchez**



## **Abstract Algebra Problems With Solutions:**

## Reviewing **Abstract Algebra Problems With Solutions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Abstract Algebra Problems With Solutions**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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