

**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 Questions And Answers

**CH Cherryholmes**



## **Abstract Algebra Questions And Answers:**

## **Abstract Algebra Questions And Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Abstract Algebra Questions And Answers**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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