

# Quantum Mechanics

## Practice Problems on Operators

### Problem-1

If  $\hat{A}$  is the complex conjugation operator [i.e.,  $\hat{A}f(x) = f^*(x)$ ] and  $\hat{B}f(x) = \frac{df}{dx}$  for any  $f(x)$ , show that  $[\hat{A}, \hat{B}] = 0$

**Solution**

$$\hat{A} \hat{B} f(x) = \hat{A} \frac{df(x)}{dx} = \frac{df^*(x)}{dx};$$

$$\hat{B} \hat{A} f(x) = \hat{B} f^*(x) = \frac{df^*(x)}{dx}$$

$$\therefore \hat{A} \hat{B} f(x) - \hat{B} \hat{A} f(x) = 0$$

$$\text{or} \quad (\hat{A} \hat{B} - \hat{B} \hat{A}) f(x) = 0$$

Since  $f(x)$  is arbitrary,  $\hat{A} \hat{B} - \hat{B} \hat{A} = 0$  or  $[\hat{A}, \hat{B}] = 0$

or  $\hat{A}$  and  $\hat{B}$  commute with each other. ■

### Problem-2

Show that  $[\hat{x}, \hat{p}_x] = i\hbar$

**Solution**

For any configuration space wave function  $\psi(x)$ ,

$$[\hat{x}, \hat{p}_x] \psi(x) = \hat{x} \hat{p}_x \psi(x) - \hat{p}_x \hat{x} \psi(x)$$

$$= x \frac{\hbar}{i} \frac{\partial \psi}{\partial x} - \frac{\hbar}{i} \frac{\partial}{\partial x} (x\psi)$$

$$= \frac{\hbar}{i} \left( x \frac{\partial \psi}{\partial x} - \psi - x \frac{\partial \psi}{\partial x} \right)$$

$$= i\hbar \psi$$

Since  $\psi$  is arbitrary,  $[\hat{x}, \hat{p}_x] = i\hbar$  ■

### Problem-3

Show that  $[\hat{p}_j, \hat{f}(\vec{r})] = \frac{\hbar}{i} \frac{\partial f}{\partial r_j}$  for  $j = 1, 2, 3$

# Some Problems Of Mathematics And Mechanics

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Problems & Solutions in Theoretical & Mathematical Physics: Advanced level Willi-Hans Steeb, 2003 This book is a collection of problems with detailed solutions which will prove valuable to students and research workers in mathematics physics engineering and other sciences The topics range in difficulty from elementary to advanced level Almost all the problems are solved in detail and most of them are self contained All relevant definitions are given Students can learn important principles and strategies required for problem solving Teachers will find this text useful as a supplement since important concepts and techniques are developed through the problems The material has been tested in the author's lectures given around the world The book is divided into two volumes Volume I presents the introductory problems for undergraduate and advanced undergraduate students In Volume II the more advanced problems together with detailed solutions are collected to meet the needs of graduate students and researchers The problems included cover most of the new fields in theoretical and mathematical physics such as Lax representation Backlund transformation soliton equations Lie algebra valued differential forms the Hirota technique the Painleve test the Bethe ansatz the Yang Baxter relation chaos fractals complexity etc

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