

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 ψ 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

Mark Burgin, Marek Czachor



Some Problems Of Mathematics And Mechanics:

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 Non-diophantine Arithmetics In Mathematics, Physics And Psychology Mark Burgin, Marek

Czachor, 2020-11-04 For a long time all thought there was only one geometry Euclidean geometry Nevertheless in the 19th century many non Euclidean geometries were discovered It took almost two millennia to do this This was the major mathematical discovery and advancement of the 19th century which changed understanding of mathematics and the work of mathematicians providing innovative insights and tools for mathematical research and applications of mathematics A similar event happened in arithmetic in the 20th century Even longer than with geometry all thought there was only one conventional arithmetic of natural numbers the Diophantine arithmetic in which $2 \cdot 2 = 4$ and $1 \cdot 1 = 2$ It is natural to call the conventional arithmetic by the name Diophantine arithmetic due to the important contributions to arithmetic by Diophantus Nevertheless in the 20th century many non Diophantine arithmetics were discovered in some of which $2 \cdot 2 = 5$ or $1 \cdot 1 = 3$ It took more than two millennia to do this This discovery has even more implications than the discovery of new geometries because all people use arithmetic This book provides a detailed exposition of the theory of non Diophantine arithmetics and its various applications Reading this book the reader will see that on the one hand non Diophantine arithmetics continue the ancient tradition of operating with numbers while on the other hand they introduce extremely original and innovative ideas

Some Problems of Mathematics and Mechanics Lars Valerian Ahlfors, 1976 Translation of Nekotorye problemy matematiki i mekhaniki **The Outer Limits of Reason** Noson S. Yanofsky, 2016-11-04 This exploration of the scientific limits of knowledge challenges our deep seated beliefs about our universe our rationality and ourselves A must read for anyone studying information science Publishers Weekly starred review Many books explain what is known about the universe This book investigates what cannot be known Rather than exploring the amazing facts that science mathematics and reason

have revealed to us this work studies what science mathematics and reason tell us cannot be revealed In *The Outer Limits of Reason* Noson Yanofsky considers what cannot be predicted described or known and what will never be understood He discusses the limitations of computers physics logic and our own intuitions about the world including our ideas about space time and motion and the complex relationship between the knower and the known Yanofsky describes simple tasks that would take computers trillions of centuries to complete and other problems that computers can never solve perfectly formed English sentences that make no sense different levels of infinity the bizarre world of the quantum the relevance of relativity theory the causes of chaos theory math problems that cannot be solved by normal means statements that are true but cannot be proven Moving from the concrete to the abstract from problems of everyday language to straightforward philosophical questions to the formalities of physics and mathematics Yanofsky demonstrates a myriad of unsolvable problems and paradoxes Exploring the various limitations of our knowledge he shows that many of these limitations have a similar pattern and that by investigating these patterns we can better understand the structure and limitations of reason itself Yanofsky even attempts to look beyond the borders of reason to see what if anything is out there *Math Physics Foundation of Advanced Remote Sensing Digital Image Processing* Lei Yan,Hongying Zhao,Yi Lin,Yanbiao Sun,2023-07-31 This book focuses on the mathematical and physical foundations of remote sensing digital image processing and introduces key algorithms utilized in this area The book fully introduces the basic mathematical and physical process of digital imaging the basic theory and algorithm of pixel image processing and the higher order image processing algorithm and its application This book skillfully and closely integrates theory algorithms and applications making it simple for readers to understand and use Researchers and students working in the fields of remote sensing computer vision geographic information science electronic information etc can profit from this book For their work and research in digital image processing they can master the fundamentals of imaging and image processing techniques *The Presbyterian Review* Charles Augustus Briggs,Archibald Alexander Hodge,Francis Landrey Patton,Benjamin Breckenridge Warfield,1886 Includes section Reviews of recent theological literature *Handbook of Information as to the Various Schools & Courses of Instruction* Columbia University,1886 **The Emergence of Modern Physics** Dieter Hoffmann,Fabio Bevilacqua,Roger H. Stuewer,1996 *Mines, Miners and Mining Interests of the United States in 1882* ,1882 **The Chemical News** ,1898 **The Chemical News and Journal of Physical Science** ,1898 *The Chemical News and Journal of Industrial Science* William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1898 *Reports of the State College of Agriculture and the Mechanic Arts* University of Maine at Orono,1884 Reports for 18 1904 include the Catalogue of the university Biennial catalogue of graduates is included in the odd years of reports for 1909 *Railway Age* ,1924 **Handbook of Information as to the Several Schools and Courses of Instruction** Columbia University,1886 *Modeling and Numerical Simulation of Fluid-Structure Interaction in Circle of Willis* Aria Alimi,2019-01-01 The main focus of this study is based on the numerical study of hemodynamics of blood

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