Chapter 1

Introduction to Statistics and Data Analysis

- 1.1 (a) 15.
 - (b) $\bar{x} = \frac{1}{15}(3.4 + 2.5 + 4.8 + \cdots + 4.8) = 3.787.$
 - (c) Sample median is the 8th value, after the data is sorted from smallest to largest: 3.6.
 - (d) A dot plot is shown below.



(e) After trimming total 40% of the data (20% highest and 20% lowest), the data becomes:

So, the trimmed mean is

$$\bar{x}_{tr20} = \frac{1}{9}(2.9 + 3.0 + \cdots + 4.8) = 3.678,$$

- (f) They are about the same.
- 1.2 (a) Mean=20.7675 and Median=20.610.
 - (b) ₱_{te00} = 20.743.
 - (c) A dot plot is shown below.



- (d) No. They are all close to each other.
 - Copyright @2012 Pearson Education, Inc. Publishing as Prentice Hall.

Probability Statistics Walpole Solution Manual

J Ma

Probability Statistics Walpole Solution Manual:

Solutions Manual to Accompany Probability and Statistics for Engineers and Scientists Ronald E. Walpole, Raymond H. Student Solutions Manual [for] Probability & Statistics for Engineers & Scientists, Myers, Sharon L. Myers, 1993 8th Ed Sharon L. Myers, Keying Ye, 2006-08 Fully worked solutions to odd numbered exercises **Probability and Statistics** by Example Yu. M. Suhov, Mark Kelbert, 2014-09-22 A valuable resource for students and teachers alike this second edition contains more than 200 worked examples and exam guestions Student Solutions Manual for Essentials of Probability and Statistics for Engineers and Scientists Ronald Walpole, Raymond Myers, Sharon Myers, Keying Ye, 2011-12-27 Normal 0 false false false This manual contains completely worked out solutions for all the odd numbered exercises in the text Solutions Manual for Probability and Statistics for Engineers and Scientists Ronald E. Walpole, Raymond H. Myers, Keying E. Ye, Sharon L. Myers, 2016-01-03 This manual contains completely worked out solutions for all the odd numbered exercises in the text Student's Solutions Manual to Accompany Ronald E. Walpole, Raymond H. Myers, 1985 Mathematics for Engineers and Scientists Andrei D. Polyanin, Alexander V. Manzhirov, 2006-11-27 Covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology The authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations. The book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations A Concise Handbook of Mathematics, Physics, and Engineering Sciences Andrei D. Polyanin, Alexei Chernoutsan, 2010-10-18 A Concise Handbook of Mathematics Physics and Engineering Sciences takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education The authors pay Allen, 2014-06-28 This is a textbook on applied probability and statistics with computer science applications for students at the upper undergraduate level It may also be used as a self study book for the practicing computer science professional The successful first edition of this book proved extremely useful to students who need to use probability statistics and queueing theory to solve problems in other fields such as engineering physics operations research and management science The book has also been successfully used for courses in queueing theory for operations research students This second edition includes a new chapter on regression as well as more than twice as many exercises at the end of each chapter While the emphasis is the same as in the first edition this new book makes more extensive use of available personal computer software such as Minitab and Mathematica Probability and Statistics by Example: Volume 1, Basic Probability and Statistics Yuri

Suhov,Mark Kelbert,2014-09-22 Probability and statistics are as much about intuition and problem solving as they are about theorem proving Consequently students can find it very difficult to make a successful transition from lectures to examinations to practice because the problems involved can vary so much in nature Since the subject is critical in so many applications from insurance to telecommunications to bioinformatics the authors have collected more than 200 worked examples and examination questions with complete solutions to help students develop a deep understanding of the subject rather than a superficial knowledge of sophisticated theories With amusing stories and historical asides sprinkled throughout this enjoyable book will leave students better equipped to solve problems in practice and under exam conditions

Embark on a transformative journey with Explore the World with is captivating work, **Probability Statistics Walpole Solution Manual**. This enlightening ebook, available for download in a convenient PDF format PDF Size: , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

https://crm.avenza.com/results/detail/HomePages/recipe_baked_pasta_primavera.pdf

Table of Contents Probability Statistics Walpole Solution Manual

- 1. Understanding the eBook Probability Statistics Walpole Solution Manual
 - The Rise of Digital Reading Probability Statistics Walpole Solution Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Probability Statistics Walpole Solution Manual
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Probability Statistics Walpole Solution Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Probability Statistics Walpole Solution Manual
 - Personalized Recommendations
 - Probability Statistics Walpole Solution Manual User Reviews and Ratings
 - Probability Statistics Walpole Solution Manual and Bestseller Lists
- 5. Accessing Probability Statistics Walpole Solution Manual Free and Paid eBooks
 - Probability Statistics Walpole Solution Manual Public Domain eBooks
 - Probability Statistics Walpole Solution Manual eBook Subscription Services
 - Probability Statistics Walpole Solution Manual Budget-Friendly Options

- 6. Navigating Probability Statistics Walpole Solution Manual eBook Formats
 - o ePub, PDF, MOBI, and More
 - Probability Statistics Walpole Solution Manual Compatibility with Devices
 - Probability Statistics Walpole Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Probability Statistics Walpole Solution Manual
 - Highlighting and Note-Taking Probability Statistics Walpole Solution Manual
 - Interactive Elements Probability Statistics Walpole Solution Manual
- 8. Staying Engaged with Probability Statistics Walpole Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Probability Statistics Walpole Solution Manual
- 9. Balancing eBooks and Physical Books Probability Statistics Walpole Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Probability Statistics Walpole Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Probability Statistics Walpole Solution Manual
 - Setting Reading Goals Probability Statistics Walpole Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Probability Statistics Walpole Solution Manual
 - Fact-Checking eBook Content of Probability Statistics Walpole Solution Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

• Interactive and Gamified eBooks

Probability Statistics Walpole Solution Manual Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Probability Statistics Walpole Solution Manual free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Probability Statistics Walpole Solution Manual free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Probability Statistics Walpole Solution Manual free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Probability Statistics Walpole Solution Manual. In conclusion, the internet offers numerous platforms and websites that allow users to

download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Probability Statistics Walpole Solution Manual any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Probability Statistics Walpole Solution Manual Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Probability Statistics Walpole Solution Manual is one of the best book in our library for free trial. We provide copy of Probability Statistics Walpole Solution Manual in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Probability Statistics Walpole Solution Manual. Where to download Probability Statistics Walpole Solution Manual online for free? Are you looking for Probability Statistics Walpole Solution Manual PDF? This is definitely going to save you time and cash in something you should think about.

Find Probability Statistics Walpole Solution Manual:

recipe baked pasta primavera recipe creamy jalapeno sauce recipe for a cure rochester ny recipe for chillis potato soup recipe for barats concord pyment recharge 2000 ford expedition ac

recipe enter ingredients recipe burnt almond cake recipe for chocolate pillow puff cookies

recipe aduki beans stir fry
recipe for calves liver
recipe cranberry peach salsa
recipe for a vanilla fairy cake
recipe for chocolate pavlova
recipe for bonefish grill pesto

Probability Statistics Walpole Solution Manual:

aramco standered interview land surveyor model pdf ftp - Apr 30 2022

web aramco standered interview land surveyor model 1 aramco standered interview land surveyor model why all political survey of india are fake not true because survey companies data base or link of 3000 elite indian those may be professor in political science in many indian university may be ex isa ips may be 2 aramco standered

aramco engineering standard surveying architects - Jan 08 2023

web jun 30 2020 aramco engineering standard survey coordinates datum s and data formats document responsibility project management office dept useful information for land surveyors civil engineers get benefits share with others aramco standered interview land surveyor model pdf - Dec 07 2022

web jun 6 2023 aramco standered interview land surveyor model 1 7 downloaded from uniport edu ng on june 6 2023 by guest aramco standered interview land surveyor model as recognized adventure as with ease as experience approximately lesson amusement as without difficulty as union can be gotten by just checking out a

aramco standard list free download pdf - Mar 30 2022

web feb 7 2017 fireproofing for plants restrictions to use of cellars pits and trenches fire protection and safety requirements for offshore production facilities safety requirements for plant and operations support buildings fire water system design foam systems portable mobile and special fixed firefighting equipment machine and equipment

aramco standered interview land surveyor model - Aug 15 2023

web aramco standered interview land surveyor model 3 3 analysis contextualizing state building processes in rok and the middle eastern countries this accessible book is intended for students and scholars in area studies and international affairs

career diplomats and south korean businesses in the middle east

aramco standered interview land surveyor model - Aug 03 2022

web jun 8 2023 aramco standered interview land surveyor model when folk should go to the electronic bookstores discover commencement by establishment shelf by shelf it is in point of in fact challenging recognizing the amplification ways to fetch this ebook aramco

aramco standered interview land surveyor model pdf full pdf - Apr 11 2023

web title aramco standered interview land surveyor model pdf full pdf red ortax org created date 9 2 2023 1 33 15 pm aramco standered inter land surveyor model download only - Jul 14 2023

web pages of aramco standered inter land surveyor model a mesmerizing literary creation penned by a celebrated wordsmith readers embark on an enlightening odyssey unraveling the intricate significance of language and its enduring impact on our lives in this appraisal we shall explore the

aramco standered interview land surveyor model - Jun 01 2022

web aramco standered interview land surveyor model is available in our digital library an online access to it is set as public so you can download it instantly our digital library saves in multiple countries allowing you to get the most less latency time to download any of our books like this one merely said the aramco standered interview land aramco standered interview land surveyor model - Feb 26 2022

web jun 27 2023 aramco standered interview land surveyor model aramco standered interview land surveyor model hp pavilion dv4 manual kvaser de naimes notams transkow de algebra thomas hungerford solution manual daroot de alternator wiring chevy shootoutsande de hp 1200 xl107 laptops owners manual pdf download 97

aramco standered interview land surveyor model pdf - Jul 02 2022

web may 16 2023 aramco standered interview land surveyor model 1 6 downloaded from uniport edu ng on may 16 2023 by guest aramco standered interview land surveyor model when people should go to the ebook stores search inauguration by shelf by shelf it is essentially problematic this is why we allow the books compilations in this

aramco standered interview land surveyor model - Jan 28 2022

web may 26 2023 simply stated the aramco standered interview land surveyor model is widely consistent with any devices to read it is your surely own mature to act out examining routine

a stakeholder analysis of aramco corporation s - Nov 06 2022

web the principal objective of this stakeholder analysis will be to enable aramco policy makers to gain a better understanding of the range and variety of stakeholders in their southern pipeline

aramco standered interview land surveyor model pdf - Oct 05 2022

web aramco standered interview land surveyor model 1 aramco standered interview land surveyor model job interview questions and answers for hiring on offshore drilling rigs

aramco standered interview land surveyor model pdf - Feb 09 2023

web jan 26 2023 as this aramco standered interview land surveyor model it ends occurring mammal one of the favored ebook aramco standered interview land surveyor model collections that we have this is why you remain in the best website to look the amazing books to have meed 2008 tallinn manual 2 0 on the international law applicable to

aramco standered interview land surveyor model pdf - Mar 10 2023

web apr 12 2023 aramco standered interview land surveyor model 2 7 downloaded from uniport edu ng on april 12 2023 by guest its founding in 1905 the fourth industrial revolution klaus schwab 2017 01 03 the founder and executive chairman of the world economic forum on how the impending technological revolution will change our lives we

aramco standered interview land surveyor model pdf pdf - May 12 2023

web aramco standered interview land surveyor model pdf introduction aramco standered interview land surveyor model pdf pdf obstruction marking and lighting united states federal aviation administration 1991 water safety plan manual aramco standered inter land surveyor model pdf - Jun 13 2023

web aramco standered inter land surveyor model book review unveiling the power of words in some sort of driven by information and connectivity the energy of words has are more evident than ever they have the capacity to inspire provoke and ignite change such may be the essence of the book aramco standered inter land surveyor model a

land surveyor translation in arabic bab la - Dec 27 2021

web a provincial land surveyor is responsible for verifying that everything is in working order mainly aimed at land surveyors the device has 21 programs for civil engineering purposes such as curve calculations for plotting road construction a professional land surveyor shall not be liable to arrest or a civil action by reason of this entry

aramco standered interview land surveyor model download - Sep 04 2022

web aramco standered interview land surveyor model downloaded from labs fuseinteractive ca by guest rice hayden job interview questions and answers for employment on offshore drilling platforms univ of california

61 best xxx indian girl nangi photo desi chut gaand pics - Mar 09 2023

web may 8 2021 by goddess aphrodite desi sexy nude girls ki gulabi chut tight gaand aur juicy boobs ke images dekhkar lund hilaye lijiye maza is latest xxx indian girl nangi photo

ladkiyon ki nangi photo nude collection xxx hd - Feb 08 2023

web ladkiyon ki nangi photo xxx nude collection in hd is just too good i got many emails daily to share indian aunty s nude photos so in this post i shared many indian ladki nude

50 nude indian girls ke hot pics desi porn gallery - Nov 24 2021

web apr 11 2017 kuch der me uska boyfriend is ladki ko bhi nanga kar dega wo uski wait me he aur uske sath aur bhi bahut sab pics he niche is ladki ke kisi me ladki apni chut se

nangi ladki ful nangi photo pictures p 1 of 1 blingee com - Jan 27 2022

web nangi ladki ful nangi photo top rated most relevant most recent these animated pictures were created using the blingee free online photo editor create great digital art

nangi ladki xhamster - Sep 03 2022

web categories related to nangi ladki lick boobs japanese beautiful japanese massage chie aoi rina japanese hd japanese oil hot japanese teen 18

nangi ladkiyon ki photo xxx nude collection hd - Jul 13 2023

web nangi ladkiyon ki photo xxx new hd collection you are looking for it s here in this post i shared many indian ladkiyon ki nangi photos all indian ladki got a very hot figure with

nangi nangi ladkiyon ko chodte hue dikhayen porn indian - Feb 25 2022

web is that even possible yes it is and all the action packed nangi nangi ladkiyon ko chodte hue dikhayen sex scenes are here to satisfy your every need and moment you spend

nangi sexy ladki ke hot fuck ki choda chodi sex video indian - Mar 29 2022

web dono hindi mai gandi gandi baat karte hue jordaar pussy fuck masti karte hain ladki first time choda chodi karti hai aur usko bahut hi maza aa raha tha ladki ki chut ko chora

nangi videos watch desi porn desi sex videos desi xxx hindi - Apr 29 2022

web nangi videos watch desi porn desi sex videos desi xxx hindi porn celebrity sex nangi ladki nangi actress nangi girls nangi aunty nude big boobs ass and pussy deep

xxx desi ladki ki chut photo hd 51 sexy girls pussy pics - Oct 24 2021

web jun 3 2021 nude girls pics indian sex cams lijiye maza indian hot babes ki rasili nangi gulabi chut ka june 3 2021 by goddess aphrodite is latest hd xxx desi ladki ki chut

sexy desi girl nangi photo hd 50 nude indian selfie pics - Dec 26 2021

web may 24 2021 50 fascinating desi nude girls images meant to arouse cocks may 24 2021 by goddess aphrodite check out these naked pictures of nude indian girls calm

sexy patli ladki ki chudai psrty ke 55 nude sex photos - May 31 2022

web oct 27 2021 27 10 2021 by akash naimtha naam ki patli ladki ki sexy party ke desi sex photos dekhe 55 hot pics me namitha ki gaand chut chuchi aur jawani dekhe ye slim

nangi ladki ki photo tamil girls showing big boobs actress - Nov 05 2022

web oct 21 2022 nangi ladki ki photo tamil girls showing big boobs october 21 2022 by actressnudepic 3 5 2 votes ad 1 nangi ladki ki photo tamil girls showing big

punjabi ladkiyo ki nangi sex photos antarvasna photos - Dec 06 2022

nangi ladki photo graphics cliparts stamps stickers p 1 of 200 - Oct 04 2022

web free nangi ladki photo graphics for creativity and artistic fun use nangi ladki photo graphics cliparts stamps and stickers with our free photo editor to create unique nangi

52 desi nangi ladki ki photos sexy big boobs nudes xxx - Apr 10 2023

web june 10 2022 by goddess aphrodite kya aap hot babes ke bade chuche dekhkar hastmaithun karna pasand karenge to maze le in 52 desi nangi ladki ki photos ke jo

sexy desi ladki ki nangi photo boobs chut ki 52 xxx pics - Jun 12 2023

web april 18 2021 by goddess aphrodite desi girlfriends apne lover ka lund khada karne ke liye apni jawan nangi jism ka jalwa dikhati hain dekhiye unki gulabi chut juicy boobs is

60 sexy kuwari indian ladki ki nangi photo desi nude babes - Aug 14 2023

web apr 23 2021 sexy kuwari indian ladki ki nangi photo porn gallery dekhkar apni kamuk fantasy ko pura kare ye desi nude babes ki chanchal chut lund ki pyasi hai aur aapko

dus saal ki ladki ki nangi photo xxxww mobi - Jul 01 2022

web dus saal ki ladki ki nangi photo 00 00 00 00 21007 10 01 dus saal ki ladki ki xvideo dus saal ki ladki ki sexy video hd dus saal ki bachi ki triple dus saal ki ladki ka bp video

nangi ladki photo pictures p 1 of 1 blingee com - Aug 02 2022

web slideshow movie maker nangi ladki photo top rated most relevant most recent featured badges likes achievement best anime blinge these animated pictures were

indian college ladki ki nangi chut aur gand chudai photos - May 11 2023

web jawan desi aur gori ladkiyo ke hot college sex photos dekhe young ladkiyo ko lund chuste hue aur apni chut aur gaand ke andar lund lete hue nashik ki sexy college girl ko nangi

56 sexy indian nangi girls pics chut gaand boobs photos - Sep 22 2021

web may 13 2021 indian nangi girls ke sexy boobs gaand chut ke xxx pics may 13 2021 by goddess aphrodite desi hot babes ki tight chut gaand aur rasile boobs ke photos

kuwari ladki ki nangi photos porn sex images xxx pics - Jan 07 2023

web aug 27 2022 here you can see that kunwari indian ladkiyo ki chudai photos how the young girls enjoying the first sex with their boyfriends you can see these leaked photos

albert einstein wikipedia - Oct 13 2023

web albert einstein ' au n s t au n eyen styne german 'albeet '?aıntaın 14 march 1879 18 april 1955 was a german born theoretical physicist who is widely held to be one of the greatest and most influential scientists of all time

albert einstein biography education discoveries facts - Sep 12 2023

web oct 17 2023 albert einstein born march 14 1879 ulm württemberg germany died april 18 1955 princeton new jersey u s german born physicist who developed the special and general theories of relativity and won the nobel prize for physics in 1921 for his explanation of the photoelectric effect

albert einstein biographical nobelprize org - Jul 10 2023

web biographical questions and answers on albert einstein albert einstein was born at ulm in württemberg germany on march 14 1879 six weeks later the family moved to munich where he later on began his schooling at the luitpold gymnasium later they moved to italy and albert continued his education at aarau switzerland and in 1896 he albert einstein simple english wikipedia the free encyclopedia - May 08 2023

web albert einstein in 1947 albert einstein 14 march 1879 18 april 1955 was a german born american scientist he worked on theoretical physics he developed the theory of relativity he received the nobel prize in physics in 1921 for theoretical physics albert einstein history - Jun 09 2023

web 1 day ago the german born physicist albert einstein developed the first of his groundbreaking theories while working as a clerk in the swiss patent office in bern

albert einstein biography physicist nobel prize winner - Aug 11 2023

web jul 20 2023 physicist albert einstein developed the theory of relativity and won the 1921 nobel prize in physics read about his inventions iq wives death and more

albert einstein his life theories and impact on science space - Apr 07 2023

web nov 18 2022 einstein is also known for his theory of general relativity an explanation of gravity and the photoelectric effect which explains the behavior of electrons under certain circumstances his