

Ace The Data Science Interview

Daniela Niemeyer

PDF Download of Ace the Data Science Interview eBook Together they wrote the Amazon #1 Best-Seller, Ace the Data Science Interview, which solves 201 real Data Science & Machine Learning interview questions from FAANG, Tech Startups, and Wall Street. **Course - Ace The Data Science Interview** Data Science Interview Crash Course For 9 days, get emailed interview questions & tips from the book Ace the Data Science Interview. Made by Nick Singh (Ex-Facebook). No spam, 100% FREE. Get Questions From: **Ace the Data Science Interview** Apr 9, 2024 · So, let's dive in and explore the answers to some of the most commonly asked questions about data science! Also... hi! I'm Nick Singh a Data Science expert and author of Amazon best seller Ace the Data Science Interview. *Ace the Data Science Interview* Lucky for you I'm an expert on all things Data Science (I even wrote an Amazon best seller called Ace the Data Science Interview!) and here to answer the most frequently asked questions about all things Data Science Interview. Ace The Data Science Interview Ace the Data Science Interview, publishing this October, features 201 real Data Science Interview questions from top-tech companies and Wall Street firms, along with their full solutions and job-hunting tips. **9 Best Data Science Interview Books For 2024** Ace the Data Science Interview features 201+ real Data Science interviews questions and solutions on topics like Probability, Statistics, Machine Learning, Coding, SQL, and Product-Sense. *Ace the Data Science Interview* My name is Nick Singh, and I'm the author of the best-selling book Ace the Data Science Interview and founder of DataLemur (a free website to practice SQL interview questions). *Ace the Data Science Interview* Using these resources, you can effectively prepare for the different aspects of the Amazon Data Science interview, from technical skills to understanding the company culture. *Ace the Data Science Interview* Ace the Data Science Interview is the best book to prepare for a Data Science Interview. It covers the most frequently-tested topics in data interviews like Probability, Statistics, Machine Learning, SQL query questions, Coding (Python), and Product Analytics. **Ace the Data Science Interview** With 201 real data science and data analytics interview questions to practice with, this book is a must-read for those trying to land data jobs at FAANG, tech startups, or on Wall Street.

Ace The Data Science Interview Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Ace The Data Science Interview**, a literary masterpiece that delves deep in to the significance of words and their impact 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 shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

[opel corsa torque settings](#)

Table of Contents Ace The Data Science Interview

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

- ePub, PDF, MOBI, and More
 - Ace The Data Science Interview Compatibility with Devices
 - Ace The Data Science Interview Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ace The Data Science Interview
 - Highlighting and Note-Taking Ace The Data Science Interview
 - Interactive Elements Ace The Data Science Interview
 8. Staying Engaged with Ace The Data Science Interview
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ace The Data Science Interview
 9. Balancing eBooks and Physical Books Ace The Data Science Interview
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ace The Data Science Interview
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Ace The Data Science Interview
 - Setting Reading Goals Ace The Data Science Interview
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Ace The Data Science Interview
 - Fact-Checking eBook Content of Ace The Data Science Interview
 - 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

Ace The Data Science Interview Introduction

Ace The Data Science Interview Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Ace The Data Science Interview Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Ace The Data Science Interview : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Ace The Data Science Interview : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Ace The Data Science

Interview Offers a diverse range of free eBooks across various genres. Ace The Data Science Interview Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Ace The Data Science Interview Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Ace The Data Science Interview, especially related to Ace The Data Science Interview, might be challenging as they're often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Ace The Data Science Interview, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Ace The Data Science Interview books or magazines might include. Look for these in online stores or libraries. Remember that while Ace The Data Science Interview, sharing copyrighted material without permission is not legal. Always ensure you're either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Ace The Data Science Interview eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Ace The Data Science

Interview full book, it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Ace The Data Science Interview eBooks, including some popular titles.

FAQs About Ace The Data Science Interview Books

1. Where can I buy Ace The Data Science Interview books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Ace The Data Science Interview book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.

4. How do I take care of Ace The Data Science Interview books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Ace The Data Science Interview audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
10. Can I read Ace The Data Science Interview books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Ace The Data Science Interview

~~opel corsa torque settings~~

~~1969 corvette restoration guide~~

black rhythms of peru reviving african musical heritage in the black pacific

~~natural born charmer~~

appraiser trainee test riverside county

edgenuity algebra 1 quiz answers

~~polking differential equations 2nd edition~~

test driven development by example

universal gravitation phet lab answers

~~oceans (food for life)~~

there are no accidents synchronicity and the stories of our lives

chapter 21 social interaction

takeaway food packaging now

2005 mercury montego

microeconomics midterm exam with answers**Ace The Data Science Interview :****culture et résistance entretiens avec david barsamian by** - Feb 08 2023

web jul 28 2023 april 30th 2020 entre 15 et 68 ans les entretiens ont duré entre 30 minutes et une heure et ont été passés au dét riment et en c ontradiction avec l culture et de la

culture et ra c sistance entretiens avec david ba pdf - Jul 13 2023

web aug 16 2023 now is culture et ra c sistance entretiens avec david ba below revue suisse de viticulture arboriculture horticulture 2001 canadiana 1991 menologie de la culture et ra c sistance entretiens avec david ba pdf - Mar 09 2023

web culture et ra c sistance entretiens avec david ba 1 culture et ra c sistance entretiens avec david ba as recognized adventure as capably as experience more or culture et résistance entretiens avec david barsamian by - Mar 29 2022

web culture et résistance entretiens avec david barsamian by edward w said un mdecin grec raconte celui qui n a pas d argent meurt parisian associations csv github *culture et ra c sistance entretiens avec david ba copy* - Nov 05 2022

web jun 7 2023 culture et ra c sistance entretiens avec david ba 3 4 downloaded from uniport edu ng on june 7 2023

by guest nouveau cours complet d agriculture théorique *culture et ra c sistance entretiens avec david ba pdf full pdf* - Apr 10 2023

web jun 22 2023 culture et ra c sistance entretiens avec david ba pdf culture et ra c sistance entretiens avec david ba web 2 culture et ra c sistance entretiens avec la revue culture et recherche ministère de la culture - May 31 2022

web culture et recherche informe sur la recherche au ministère de la culture dans toutes ses composantes architecture patrimoine création médias industries culturelles

culture et résistance entretiens avec david barsamian by - Aug 14 2023

web culture et résistance entretiens avec david barsamian by edward w said culture et résistance entretiens avec david barsamian by edward w said religions cultures et **culture et ra c sistance entretiens avec david ba uniport edu** - Dec 06 2022

web may 10 2023 code de l humanite ou la legislation universelle naturelle civile et politique avec l histoire litteraire des plus grands hommes qui ont contribue a la culture et ra c sistance entretiens avec david ba copy - Sep 03 2022

web jul 10 2023 culture et ra c sistance entretiens avec david ba 3 5 downloaded from uniport edu ng on july 10 2023 by guest grand dictionnaire universel du xixe siecle **culture et résistance entretiens avec david barsamian by** - Jan 27 2022

web culture et résistance entretiens avec david barsamian by

edward w said entretiens radiophoniques les deux hommes abordent la question du conflit israélo palestinien
les relations culturelles de la turquie - Aug 02 2022

web 83 conférence sur la 80e année de la coopération en europe souligne également la diversité de la culture européenne 11
 donc on peut dire de ce qui précède qu'il est difficile
culture et résistance entretiens avec david barsamian by -
 Sep 22 2021

web culture et résistance entretiens avec david barsamian by
 edward w said culture et résistance entretiens avec david
 barsamian by edward w said r la lune n 112 by
**culture et résistance entretiens avec david barsamian
 by** - Oct 04 2022

web jun 17 2023 entre 15 et 68 ans les entretiens ont duré
 entre 30 minutes et une heure et ont été passés au dé
 riment et en contradiction avec la culture et de la communication
 et

**culture et résistance entretiens avec david barsamian
 by** - Oct 24 2021

web culture et résistance entretiens avec david barsamian by
 edward w said march 16th 2020 toute législation de ce type
 sera considérée comme une action unilatérale et mettra
culture et résistance entretiens avec david barsamian by -
 Dec 26 2021

web culture et résistance entretiens avec david barsamian by
 edward w said aussi bien dans les laboratoires que dans les
 industries pharmaceutiques cosmétiques plastiques
**culture et résistance entretiens avec david barsamian
 by** - Feb 25 2022

web may 1st 2020 la culture est sur le terrain par les

associations et elle n'a pas trouvé la jonction avec les
 gouvernants etc c'est quand même un problème car cette
 volonté

culture et résistance entretiens avec david barsamian pdf ftp - May
 11 2023

web culture et résistance entretiens avec david barsamian
 creating a new racial order the oxford handbook of identity
 development race culture and the revolt of the black
culture et résistance entretiens avec david barsamian by -
 Nov 24 2021

web jun 19 2023 culture et résistance entretiens avec david
 barsamian by edward w said pdf la résistance l'art
 contemporain sur full text of la grèce antique entretiens
РОССИЯ И ТУРЦИЯ В ДИАЛОГЕ КУЛЬТУР - Apr 29
 2022

web the role of historical prerequisites for the modern
 development of cultural dialogue between russia and turkey
 is shown the existence of a contractual framework and
 interaction

des usages du mot culture dans la recherche ceca - Jul
 01 2022

web des interrogations ont accompagné la conduite de la
 recherche ceca autour de la notion de culture comment
 résoudre la tension entre l'individuel et des traits collectifs
 que

**culture et résistance entretiens avec david barsamian
 by** - Jun 12 2023

web said the culture et résistance entretiens avec david barsamian
 is universally compatible behind any devices to read culture
 et résistance entretiens avec david barsamian 2022

culture et ra c sistance entretiens avec david ba uniport edu - Jan 07 2023

web mar 3 2023 culture et ra c sistance entretiens avec david ba 1 4 downloaded from uniport edu ng on march 3 2023 by guest culture et ra c sistance entretiens avec **emery s elements of medical genetics and genomics google** - Jun 21 2023

emery s elements of medical genetics and genomics edition 16 by peter d turnpenny bsc mb chb drcog dch frcp frcpch frcpath fhea sian ellard bsc phd frcpath

emery s elements of medical genetics by peter d turnpenny - May 08 2022

pd turnpenny s ellard r cleaver elsevier health sciences 2020 595 nature genetics 40 8 949 951 2008 551 2008 best practice guidelines for the molecular genetic diagnosis of *emery s elements of medical genetics and genomics 16th* - Sep 24 2023

dec 15 2020 offer details description long recognized as a leading textbook in this fast moving field emery s elements of medical genetics and genomics offers current complete emery s elements of medical genetics worldcat org - Oct 13 2022

oct 7 2021 emery s elements of medical genetics and genomics by peter d turnpenny sian ellard ruth cleaver 2021 elsevier edition in english

emery s elements of medical genetics google books - Feb 17 2023

presents the extensive knowledge and experience of distinguished editors peter d turnpenny and sian ellard as well as new editor ruth cleaver enhanced ebook version

included with

emery s elements of medical genetics and genomics - Dec 15 2022

emery s elements of medical genetics peter d turnpenny sian ellard google books peter d turnpenny sian ellard elsevier churchill livingstone 2005 genetic disorders 443

emery s elements of medical genetics peter d turnpenny - Mar 18 2023

nov 30 2016 emery s elements of medical genetics emery s elements of medical genetics e book peter d turnpenny sian ellard elsevier health sciences nov 30 2016 medical **sian ellard google scholar** - Feb 05 2022

emery s elements of medical genetics e book google books - Apr 19 2023

emery s elements of medical genetics peter d turnpenny sian ellard elsevier churchill livingstone 2012 medical 445 pages master the genetics you need to know with the

emery s elements of medical genetics by peter d turnpenny - Apr 07 2022

john turnpenny the incumbent of milton malsor collingtree in 1393 mentioned in the parish church doomsday book picture shows the holly cross church at milton malsor my emery s elements of medical genetics peter d turnpenny - Sep 12 2022

covers both the scientific basis and clinical applications of genetics for this new edition the content has been thoroughly updated to keep abreast of this fast changing area including emery s elements of medical genetics and genomics - May 20 2023

mar 4 2011 master the genetics you need to know with the updated 14th edition of emery s elements of medical genetics by drs peter turnpenny and sian ellard review the field s [emery s elements of medical genetics and genomics](#) - Aug 23 2023

emery s elements of medical genetics and genomics authors peter d turnpenny author sian ellard author ruth cleaver author summary the 16th edition of this award winning **turnpenny one name genealogy study of the surname family** - Jan 04 2022

emery s elements of medical genetics turnpenny peter d free - Jun 09 2022

peter d turnpenny sian ellard boek emery s elements of medical genetics volg dit boek documenten 351 studenten 109 samenvattingen datum beoordeling studiejaar **emery s elements of medical genetics peter d turnpenny** - Mar 06 2022

january 15 2023 history edit an edition of emery s elements of medical genetics 2004 emery s elements of medical genetics 12th ed by peter d turnpenny peter turnpenny [emery s elements of medical genetics and genomics 16th edition](#) - Jan 16 2023

summary master the genetics you need to know with the updated 14th edition of emery s elements of medical genetics by drs peter turnpenny and sian ellard review the field s **alagille syndrome pathogenesis diagnosis and management** - Aug 11 2022

dec 5 2022 emery s elements of medical genetics by peter d turnpenny peter turnpenny and sian ellard 0 ratings 0 want

to read 0 currently reading 0 have read this edition [emery s elements of medical genetics and genomics open](#) - Jul 10 2022

january 14 2023 history edit an edition of emery s elements of medical genetics 2012 emery s elements of medical genetics 14th ed peter d turnpenny sian ellard by peter **emery s elements of medical genetics and genomics** - Jul 22 2023

dec 15 2020 buy ebook 40 79 my library my history emery s elements of medical genetics and genomics emery s elements of medical genetics e book peter d

peter d turnpenny sian ellard emery s elements of - Nov 14 2022

alagille syndrome algs also known as arteriohepatic dysplasia is a multisystem disorder due to defects in components of the notch signalling pathway most commonly due to mutation in

emery s elements of medical genetics by peter d turnpenny - Dec 03 2021

6 different types of electrical wire and how to choose one - Jun 06 2023

web jun 9 2022 electrical wire is typically made of copper or aluminum and these conductive materials are insulated as wires that bring electricity to various parts of your home when you re installing new wiring choosing the right wire or cable is half the battle

basic home wiring plans and wiring diagrams ask the electrician - Oct 30 2022

web basic home wiring diagrams fully explained home

electrical wiring diagrams with pictures including an actual set of house plans that i used to wire a new home choose from the list below to navigate to various rooms of this home *31 common household circuit wirings you can use for your home* - Aug 08 2023

web 1 120v duplex receptacles wired in sequence 120v duplex receptacles wired in sequence use this layout to link any number of duplex receptacles in a basic lighting receptacle circuit the last receptacle in the cable run is connected like the receptacle shown at the right side of the circuit wiring below

pdf basic electrical house wiring academia edu - Feb 19 2022

web pure poly vinyl chloride is a white brittle solid it is insoluble in alcohol but slightly soluble in tetrahydrofuran electrical tape or insulating tape is a type of pressure sensitive tape used to insulate electrical wires and other materials that conduct electricity

house wiring for beginners diywiki diy faq - May 05 2023
web house wiring for beginners gives an overview of a typical basic domestic 240v mains wiring system as used in the uk then discusses or links to the common options and extras further information on options is available in the rewiring tips article contents 1 safety 2 regulations 3 word meanings 4 overview 5 consumer unit cu 5 1 split load cu *electrical wiring components and accessories ncert* - May 25 2022

web electrical wire is made of materials like copper aluminium and silver as silver is expensive mostly copper and aluminium are used in wiring materials are classified

into three types according to their properties conducting materials insulating materials semiconductor materials conducting material copper it is a good conductor of electricity

the basics of home electrical wiring what you need to know - Mar 23 2022

web start by running a wire from the main breaker panel to the location where you ll be installing new wiring be sure to use the appropriate type of wire for the project you re doing once the wiring is in place you can then begin connecting it to the electrical components such as switches outlets and fixtures

house wiring material list in 2022 best products for house wiring - Apr 23 2022

web dec 12 2021 so there are many types of house wiring material but we can take the best and most time useful house wiring materials names house wiring are mainly two types these two types of the house wiring is given below that are as follows simple or open house wiring fancy or closed house wiring simple or open house wiring

how to rough in electrical wiring diy family handyman - Feb 02 2023

web sep 22 2020 in this article we ll show you some house wiring basics how to position outlet and switch boxes and run the electrical cable between them we won t cover many other house wiring details for help with circuit design and making connections to your main electrical panel we recommend you consult a licensed electrician

home wiring 101 basic electrical wiring for homeowners - Jul 07 2023

web standard household electrical wire contains three wires black hot white neutral and bare copper ground types of household wires typical electrical wire for home use comes in an insulated sleeve and consists of three wires a black wire carries the electrical current and is therefore commonly known as the hot wire

electrical wiring wikipedia - Aug 28 2022

web wiring systems in a single family home or duplex for example are simple with relatively low power requirements infrequent changes to the building structure and layout usually with dry moderate temperature and non corrosive environmental conditions

learn the basics of home electrical wiring trade school - Jul 27 2022

web what type of wire is used for residential most modern homes use nonmetallic nm cable that consists of two or more wires wrapped inside the colored sheathing mentioned previously the package of wires usually contains one or more hot wires plus a

common types of household wiring materials and their uses - Mar 03 2023

web the proper installation of these wires with quality materials is essential if you are puzzled about what these materials are here you have extensive information on the types of the wiring materials and their uses non metallic sheathed cable it is a flexible electric cable that is coated with a plastic covering generally the composition of

house wiring basics for beginners youtube - Apr 04 2023

web sep 24 2020 electric house wiring is consists of an electrical wiring system that distributes energy to be used in

equipment and appliances around the house it is also involves the proper installation and

homeowner electrical cable basics the family handyman - Jan 01 2023

web feb 4 2021 family handyman electrical cable types the basics the wire and cable aisle at your home center can be a pretty confusing place we ll teach you how to identify different electrical wire types and their uses and how to determine the size of individual wires and their purposes

basics of household wiring course home electrical system a z - Nov 30 2022

web the electrical system a to z everything electricity from your circuit breaker panel outlets switches receptacles light fixtures cable wire bestseller

all about electrical wiring types sizes installation the spruce - Sep 09 2023

web sep 12 2023 like electrical service panels a disconnect must be installed by a licensed electrician article sources learn the basics of electrical wiring for the home including wire and cable types wire color codes and labeling and essential wiring techniques

basic electrical parts components of house wiring circuits - Oct 10 2023

web apr 7 2018 basic household electrical parts materials 1 electric meter first in the list of common electrical parts you see everyday is the electric meter it is used by the national electricity grid to measure the units of electrical energy used in your household circuits

electrical wiring demystified a beginner s guide to home wiring - Jun 25 2022

web mar 24 2023 electrical circuits consist of switches wires along with other electronic components which work to create a safe and reliable electrical system there are different types of electrical wiring including copper aluminum and wire insulation types like pvc rubber or paper
house wiring made simple wiring work - Sep 28 2022

web oct 14 2022 low voltage wiring typically connects devices within a single room such as lights fans outlets and other components high voltage wiring on the other hand is used for larger projects such as connecting an entire house to the main power source powering various circuits and connecting appliances like dishwashers and refrigerators