INSTALLATION AND OPERATION INSTRUCTIONS P-K STANDARD FLO BOILER WATER WATER HEATER

P-K	SERIAL NO
INSTALLATION	
RATING:	°F TO°F.
TU	BE SECTION DESIGN PRESSUREPSIG.
SH	HELL DESIGN PRESSURE PSIG.
BOILER WATER	INLET "F BOILER WATER OUTLET"F
CODE: ASME S	ECTION VIII

SERVICE ON THIS UNIT MUST BE PERFORMED BY FULLY TRAINED AND QUALIFIED PERSONNEL

IMPROPER SERVICING OF THIS EQUIPMENT MAY CREATE A POTENTIAL HAZARD TO EQUIPMENT AND OPERATORS.

PATTERSON-KELLEY

100 Burson Street East Stroudsburg, PA 18301 Phone: 570.421.7500 Fax: 570.475.7247 www.pixwaterheaters.com



Patterson Kelley Series 500 Manual

Hussin A.Rothana

Patterson Kelley Series 500 Manual:

Thank you very much for downloading **Patterson Kelley Series 500 Manual**. As you may know, people have look hundreds times for their favorite novels like this Patterson Kelley Series 500 Manual, but end up in malicious downloads.

Rather than reading a good book with a cup of coffee in the afternoon, instead they cope with some harmful bugs inside their laptop.

Patterson Kelley Series 500 Manual is available in our book collection 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.

Kindly say, the Patterson Kelley Series 500 Manual is universally compatible with any devices to read

https://correiodobrasil.blogoosfero.cc/data/scholarship/Download PDFS/papd%20test%20prep%20guide.pdf

Table of Contents Patterson Kelley Series 500 Manual

- 1. Understanding the eBook Patterson Kelley Series 500 Manual
 - o The Rise of Digital Reading Patterson Kelley Series 500 Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Patterson Kelley Series 500 Manual
 - 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 Patterson Kelley Series 500 Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Patterson Kelley Series 500 Manual
 - Personalized Recommendations

- Patterson Kelley Series 500 Manual User Reviews and Ratings
- Patterson Kelley Series 500 Manual and Bestseller Lists
- 5. Accessing Patterson Kelley Series 500 Manual Free and Paid eBooks
 - o Patterson Kelley Series 500 Manual Public Domain eBooks
 - Patterson Kelley Series 500 Manual eBook Subscription Services
 - Patterson Kelley Series 500 Manual Budget-Friendly Options
- 6. Navigating Patterson Kelley Series 500 Manual eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Patterson Kelley Series 500 Manual Compatibility with Devices
 - Patterson Kelley Series 500 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Patterson Kelley Series 500 Manual
 - Highlighting and Note-Taking Patterson Kelley Series 500 Manual
 - Interactive Elements Patterson Kelley Series 500 Manual
- 8. Staying Engaged with Patterson Kelley Series 500 Manual
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Patterson Kelley Series 500 Manual
- 9. Balancing eBooks and Physical Books Patterson Kelley Series 500 Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Patterson Kelley Series 500 Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Patterson Kelley Series 500 Manual
 - Setting Reading Goals Patterson Kelley Series 500 Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Patterson Kelley Series 500 Manual
 - Fact-Checking eBook Content of Patterson Kelley Series 500 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

Patterson Kelley Series 500 Manual Introduction

In the digital age, access to information has become easier than ever before. The ability to download Patterson Kelley Series 500 Manual has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Patterson Kelley Series 500 Manual has opened up a world of possibilities. Downloading Patterson Kelley Series 500 Manual provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Patterson Kelley Series 500 Manual has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Patterson Kelley Series 500 Manual. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Patterson Kelley Series 500 Manual. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Patterson Kelley Series 500 Manual, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to

distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Patterson Kelley Series 500 Manual has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Patterson Kelley Series 500 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 webbased 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, guizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Patterson Kelley Series 500 Manual is one of the best book in our library for free trial. We provide copy of Patterson Kelley Series 500 Manual in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Patterson Kelley Series 500 Manual. Where to download Patterson Kelley Series 500 Manual online for free? Are you looking for Patterson Kelley Series 500 Manual PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another Patterson Kelley Series 500 Manual. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of Patterson Kelley Series 500 Manual are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to

your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with Patterson Kelley Series 500 Manual. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with Patterson Kelley Series 500 Manual To get started finding Patterson Kelley Series 500 Manual, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with Patterson Kelley Series 500 Manual So depending on what exactly you are searching, you will be able tochoose ebook to suit your own need. Thank you for reading Patterson Kelley Series 500 Manual. Maybe you have knowledge that, people have search numerous times for their favorite readings like this Patterson Kelley Series 500 Manual, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. Patterson Kelley Series 500 Manual is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, Patterson Kelley Series 500 Manual is universally compatible with any devices to read.

Find Patterson Kelley Series 500 Manual:

papd test prep guide
paper cake slice box template

panasonic th 50px80u plasma hd tv service manual paris tuesday june 281983

paradise in front of me realizing lifes beauty in an unexpected place papa doug hauls strawberries and smiles part manual for atlas 1604 paper a short story

paradero desconocido narrativas

partner 370 chainsaw service manual

papa grade 3 post test administration and scoring guide phonemics awareness and phonics assessment parkieten huisvesting verzorging voeding en kweken

<u>parallel curriculum model</u> <u>paper airplanes flight school level 1</u> <u>partial differential equations strauss solutions manual strauss</u>

Patterson Kelley Series 500 Manual:

economics principles and practices word search pdf - Jun 01 2022

web jul 27 2023 to begin getting this info acquire the economics principles and practices word search link that we have enough money here and check out the link you could

economics principles and practices word search secure4 khronos - Sep 23 2021

web economics principles and practices word search that can be your companion you could swiftly fetch this economics principles and practices word search after getting

economics principles and practices word search - Mar 30 2022

web economics principles and practices chapter 1 flashcards dentonisd org economics principles and practices 2003 ed econsources business studies word

economics principles and practices word search secure4 khronos - Nov 25 2021

web jun 7 2023 economics principles and practices word search pdf plumer s principles and practice of intravenous therapy principles of heredity wordsearch the biology

principles of economics 7th edition harvard kennedy school - Nov 06 2022

web principles of economics 7th edition gregory mankiw 2014 book with its clear and engaging writing style principles of economics seventh edition continues to be one

economics principles and practices word search secure4 khronos - Mar 10 2023

web jun 25 2023 economics principles and practices word search and plentiful books compilations from fictions to scientific examinationh in any way you have endured in

economics principles and practices 2003 ed econsources - Aug 15 2023

web professional economic associations search sites and tools economic education federal agencies country profiles news and publications for economists monster glossary

economics principles and practices amazon com - Dec 27 2021

web jan 1 2007 economics principles practices is the only program with full coverage of the new economy and the impact of the digital revolution it is correlated to the national

economics principles and practices word search jetpack theaoi - Jul 02 2022

web economics principles and practices chapter 1 economics the study of how a risk taker in search of profits who does something new with existing resources economics word

economics principles and practices word search answers - Sep 04 2022

web economics principles and practices chapter 1 flashcards a risk taker in search of profits who does something new with existing resources production the process of

economics principles and practices 2012 mcgraw hill - Apr 11 2023

web the global economy economics principles and practices recognizes that many economic events and issues reach far beyond the community state and even nation

economics principles and practices word search copy - Jan 28 2022

web aug 2 2023 practices word search as with ease as evaluation them wherever you are now 250 best paying jobs j michael farr 2007 the biggest paychecks plus details

economics principles and practices word search secure4 khronos - Apr 30 2022

web jun 26 2023 principles and practices word search what you alike to browse you could not be mystified to enjoy every book collections economics principles and

economics principles and practices reading essentials and - Oct 05 2022

web economics principles and practices reading essentials and study guide by mcgraw hill publication date 2004 publisher place of publication not identified glencoe

economics principles and practices word search secure4 khronos - May 12 2023

web we disburse for economics principles and practices word search and plentiful books archives from fictions to scientific examinationh in any way solely expressed the

economics principles and practices 2010 page 1 of 8 - Dec 07 2022

web key three motivation the global economy economics principles and practices recognizes that many economic events and issues reach far beyond the community

economics principles and practices guided reading activities - Feb 09 2023

web jun 1 2011 economics principles and practices guided reading activities mcgraw hill google books

principles of economics chapter exam study com - Jan 08 2023

web nystce business and marketing 168 test prep nystce business and marketing 168 prep course principles of economics chapter join study com to take this

principles of economics 7th edition solutions and answers - Jun 13 2023

web exercise 3 exercise 4 exercise 5 exercise 6 at quizlet we re giving you the tools you need to take on any subject without

having to carry around solutions manuals or printing

economics principles and practices word search copy - Feb 26 2022

web jul 26 2023 you may not be perplexed to enjoy every books collections economics principles and practices word search that we will certainly offer it is not in relation to

economics principles and practices word search pdf - Jul 14 2023

web economics principles and practices word search principles and practices for a federal statistical agency apr 24 2022 web four principles are fundamental for a federal

economics principles and practices search uw madison libraries - Oct 25 2021

web clayton gary e economics principles and practices new york glencoe mcgraw hill 1999 warning note these citations are software generated and may contain errors

economics principles and practices economic content - Aug 03 2022

web jun 1 2011 economics principles and practices economic content vocabulary activities economics principles practic 9780078953347 economics

amazon co uk customer reviews pablo escobar il padrone del male - Mar 08 2023

web find helpful customer reviews and review ratings for pablo escobar il padrone del male enewton saggistica italian edition at amazon com read honest and unbiased product reviews from our users pablo escobar il padrone del male enewton saggist 2022 - Apr 09 2023

web amazon it pablo escobar il padrone del male escobar pablo escobar il padrone del male episodio 3 la caduta gratis pablo emilio escobar libro pdf aggiornata pablo escobar il padrone del male enewton saggistica pablo escobar il padrone del male enewton saggist downloaded from stage gapinc com by guest blanchard

pablo escobar drug baron his surrender imprisonment and escape - Nov 04 2022

web abstract colombian pablo emilio escobar gavira leader of one of the largest cocaine processing and distributing organizations in the world was shot to death in december 1993 by a special force of police officers he was first arrested on drug charges by colombian authorities in june of 1976 the story of his life between that first arrest pablo escobar il padrone del male pdf gratis peatix - Oct 03 2022

web von juan pablo escobar gesprochen von gianluca iacono spieldauer 13 std il padrone del male è un ebook di escobar juan pablo pubblicato da newton compton editori nella collana enewton il padrone del male enewton saggistica italian edition ebook escobar juan pablo amazon

pablo escobar il padrone del male enewton saggistica by juan pablo - Aug 13 2023

web jun 19 2023 in the same way attain not find the newspaper pablo escobar il padrone del male enewton saggistica by

juan pablo escobar that you are looking for maybe you have insight that people have look plentiful times for their top books later this pablo escobar il padrone del male enewton saggistica by juan pablo escobar but end up in

pablo escobar il padrone del male enewton saggistica - Jun 11 2023

web socialite pablo escobar head of the medellin cartel the founder of the global cocaine industry and one of the most ambitious and brutal criminals in history over the course of their tempestuous love affair vallejo witnessed pablo escobar il padrone del male enewton saggist 2023 - Jul 12 2023

web pablo escobar il padrone del male enewton saggist if you ally need such a referred pablo escobar il padrone del male enewton saggist ebook that will present you escobar il padrone del male enewton saggist as one of the most operating sellers here will certainly be in the course of the best options to review e e

pablo escobar il padrone del male enewton saggistica by juan pablo - Sep 02 2022

web may 29 2023 pablo escobar il padrone del male enewton saggistica by juan pablo escobar raccontare una versione inedita del padre un uomo che era capace di compiere crudeltà indicibili e allo stesso tempo

killing pablo life and style the guardian - Jun 30 2022

web apr 29 2001 colombian drug baron playboy and politician pablo escobar started out as a car thief and became the world s seventh richest man in the first of two extracts from his new book mark bowden

pablo escobar il padrone del male enewton saggistica italian - Feb 07 2023

web pablo escobar il padrone del male enewton saggistica italian edition ebook escobar juan pablo amazon co uk kindle store pablo escobar il padrone del male enewton saggistica la casey - Mar 28 2022

web mar 9 2023 as this pablo escobar il padrone del male enewton saggistica it ends up living thing one of the favored book pablo escobar il padrone del male enewton saggistica collections that we have this is why you remain in the best website to look the incredible ebook to have the sugar merchant s wife erica brown 2018 03 05

pablo escobar il padrone del male enewton saggistica italian - Sep 14 2023

web sep 8 2016 buy pablo escobar il padrone del male enewton saggistica italian edition read kindle store reviews amazon com

pablo escobar il padrone del male enewton saggistica pdf - Aug 01 2022

web guerriglieri che divenne il braccio armato del boss colombiano senza sconti o reticenze la voce personale di juan pablo mette insieme gli ultimi pezzi di un puzzle complesso e finora misterioso la vita di un uomo spietato e senza scrupoli fiero della sua attività e molto più crudele di come il cinema e la tv l hanno descritto il

pablo escobar il padrone del male pdf gratis peatix - Apr 28 2022

web il padrone del male è un ebook di escobar juan pablo pubblicato da newton compton editori nella collana enewton il

padrone del male escobar juan pablo isbn kostenloser versand für alle bücher mit versand und verkauf duch amaz pablo escobar il padrone del male enewton saggistica by juan pablo escobar - Oct 15 2023

web escobar 8 pablo escobar il padrone del male enewton saggistica scarica libri gratis pablo escobar il padrone del male enewton saggistica ebook pablo escobar il padrone del male enewton ho sposato pablo escobar la mia vita con il re dei narcos download pablo escobar il padrone del male enewton scarica libri gratis epub download the

download solutions pablo escobar il padrone del male enewton saggist - Jan 06 2023

web pablo escobar il padrone del male enewton saggist politics philosophy terror jun 18 2020 hannah arendt s rich and varied political thought is more influential today than ever before due in part to the collapse of communism and the need for ideas that move beyond the old ideologies of the cold war

pablo escobar il padrone del male pdf gratis peatix - May 30 2022

web getting the books pablo escobar il padrone del male il padrone del male è un ebook di escobar juan pablo pubblicato da newton compton editori nella collana enewton il padrone del male pablo escobar el patrón del mal with cecilia navia vicky hernández christian tappan andrés parra il padrone del male escobar juan pablo isbn kost pepe escobar wikipedia - Feb 24 2022

web pepe escobar on rt america in 2012 pepe escobar born 1954 is a brazilian journalist and geopolitical analyst 1 2 his column the roving eye for asia times regularly discusses the multi national competition for dominance over the pablo escobar biography death facts britannica - Dec 05 2022

web pablo escobar the notorious colombian drug lord and billionaire criminal mastermind rose to infamy as the leader of the medellín cartel during a reign marked by violence corruption and unimaginable wealth pablo escobar il padrone del male enewton saggist download - May 10 2023

web 2 pablo escobar il padrone del male enewton saggist 2021 11 24 pablo escobar il padrone del male enewton saggist downloaded from mail thekingiscoming com by guest rachael nicholson son of escobar pablo escobar il padrone del malepablo escobar reproduction of the original a history of spanish literature by james

ieee 33 bus radial distribution system see online - Aug 12 2022

web oct $13\ 2020$ the present work is examined against ieee $33\ 69$ and 119 bus balanced radial distribution networks with constant power loads $5\ 1$ ieee 33 bus radial

ieee 33 bus test distribution system pdf engineering scribd - Nov 03 2021

an enhanced ieee 33 bus benchmark test system for - Aug 24 2023

web an enhanced ieee 33 bus benchmark test system for distribution system studies abstract the transformation of passive

distribution systems to more active ones thanks

ieee 33 bus radial distribution system researchgate - Jul 23 2023

web apr 4 2020 a matlab model of the ieee 33 bus system for various power system studies designed with simplicity and user friendliness in mind the model includes a

multiple dg placements in radial distribution system for multi - Feb 06 2022

web interest the research uses the ieee 33 bus distribution system as the test system shortcircuit calculation for the test system as well as the modeling and solution of the

standard ieee 33 bus system download scientific diagram - Nov 15 2022

web the proposed method is tested on ieee 33 bus and 69 bus radial distribution system to verify its performance on obtaining optimal dg placement and sizing for losses reduction

real and reactive power loss minimization of ieee 33 bus by - Jan 17 2023

web download scientific diagram standard ieee 33 bus system from publication a combined model for uncertain load and optimal configuration of distributed generation in power

voltage profile enhancement of a 33 bus system integrated - Apr 20 2023

web may 25 2022 this document provides critical parameters for the ieee 33 bus and 123 bus ac dc hybrid test systems under grid connected and island operations it is

a new method for ferroresonance suppression in an ieee 33 bus - $\mbox{May}~09~2022$

web apr 23 2021 the developed algorithm is validated using the standard ieee 33 bus radial distribution system the algorithm is easy and simple to implement keywords reconfiguration henry gas solubility optimization algorithm radial distribution system

central improvement of voltage sags in the ieee 33 bus - Oct 02 2021

optimal location and capacity of dg systems in distribution - Dec 04 2021

optimal placement and sizing of distributed generation in - Jul 11 2022

web context 1 voltage level on the test system uses a base voltage level of 12 66 kv 20 with 33 buses 32 branches and total loads of 3 655 j2 260 kva the proposed method

<u>line data of the ieee 33 bus radial distribution system 20</u> - Sep 13 2022

web feb 28 2023 dg study all abnormal separation conditions on the wind dg integrated into the modified ieee 33 bus system were studied in this work figure 6 indicates the connection of the wind dg to the

modified ieee 33 bus and 123 bus ac dc hybrid test - Feb 18 2023

web in the present work an ieee 33 nodes radial distribution system is considered and the voltage of each bus is taken care with the help of power sensitivity index the present

reconfiguration of radial distribution system to minimize active - Jan 05 2022

33 bus test system the life institute - May 21 2023

web ieee 33 bus rds is considered in this study with solar pv sources incorporated for power loss reduction voltage fluctuation and improve the system efficiency for the purpose of

ieee standard 33 bus radial distribution system single - Oct 14 2022

web jun 20 2019 the proposed method has been implemented and tested on ieee 33 bus distribution system introduction distributed generation placement load management

optimal siting and sizing of multiple distributed generation - $\mbox{\sc Apr}$ $08\ 2022$

web oct 23 2020 an iterative method for determining the optimal size and location based on the exact formula for losses and this methodology is evaluated on three distinct ieee

line data and load of system ieee 33 bus download table - Mar 07 2022

web ieee 33 bus test distribution system free download as pdf file pdf text file txt or read online for free

an enhanced ieee 33 bus benchmark test system - Mar 19 2023

web abstract to overcome the problem of voltage profile and power losses in radial distribution system rds is a task that must be solved through different optimization technique

optimum location of svc in an ieee 33 bus radial - Dec 16 2022

web context 1 network is fed by a synchronous generator while it is loaded from 3 715 mw and 2 3 mvar connected to thirty two buses of different power factors tables 1 and 2

ieee 33 bus system file exchange matlab central - Jun 22 2023

web the modified 33 bus test system is an adaptation from the ieee 33 bus test system with the following characteristics the nominal voltage is set at 13 8 kv at the substation the

vwhp network with distributed generation iopscience - Jun 10 2022

web dec 1 2018 ieee 33 bus system line diagram of 33 bus system is shown in fig 4 and system data are referred from 10 download download high res image 104kb