Perkin Elmer Spectrum 2000 FTIR

Operation procedure

Perkin Elmer Spectrum 2000 FTIR is constantly purged with dry Air

- 1. Double click on Spectrum software.
- 2. Make sure that sample compartment is empty
- In the Instrument menu, select Scan Background, and check parameters (single beam, Background filename, start and end scan, resolution...). Click Ok. Overwrite the old background
- In the Instrument menu, select Scan Sample, and check parameters (ratio, filename, start and end scan, resolution...) Click Ok.
- To find peaks click the Label Peaks button. To adjust threshold right click the Label Peaks again to enter new values.
- 6. To expand a region left-click and drag to select, then double click
- 7. To save your file select Save As in File menu
- 8. When done, close Spectrum software and logout
- Do not turn off the FTIR. Do not turn off computer.

Perkin Elmer Ftir 2000 Manual

O García

Perkin Elmer Ftir 2000 Manual:

Perkin Elmer Ftir 2000 Manual Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Perkin Elmer Ftir 2000 Manual**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://crm.avenza.com/results/uploaded-files/index.jsp/Phet Answer Key For Forces Dem.pdf

Table of Contents Perkin Elmer Ftir 2000 Manual

- 1. Understanding the eBook Perkin Elmer Ftir 2000 Manual
 - The Rise of Digital Reading Perkin Elmer Ftir 2000 Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Perkin Elmer Ftir 2000 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 Perkin Elmer Ftir 2000 Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Perkin Elmer Ftir 2000 Manual
 - Personalized Recommendations
 - Perkin Elmer Ftir 2000 Manual User Reviews and Ratings
 - Perkin Elmer Ftir 2000 Manual and Bestseller Lists

- 5. Accessing Perkin Elmer Ftir 2000 Manual Free and Paid eBooks
 - Perkin Elmer Ftir 2000 Manual Public Domain eBooks
 - Perkin Elmer Ftir 2000 Manual eBook Subscription Services
 - Perkin Elmer Ftir 2000 Manual Budget-Friendly Options
- 6. Navigating Perkin Elmer Ftir 2000 Manual eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Perkin Elmer Ftir 2000 Manual Compatibility with Devices
 - Perkin Elmer Ftir 2000 Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Perkin Elmer Ftir 2000 Manual
 - Highlighting and Note-Taking Perkin Elmer Ftir 2000 Manual
 - Interactive Elements Perkin Elmer Ftir 2000 Manual
- 8. Staying Engaged with Perkin Elmer Ftir 2000 Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Perkin Elmer Ftir 2000 Manual
- 9. Balancing eBooks and Physical Books Perkin Elmer Ftir 2000 Manual
 - \circ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Perkin Elmer Ftir 2000 Manual
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Perkin Elmer Ftir 2000 Manual
 - Setting Reading Goals Perkin Elmer Ftir 2000 Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Perkin Elmer Ftir 2000 Manual
 - Fact-Checking eBook Content of Perkin Elmer Ftir 2000 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

Perkin Elmer Ftir 2000 Manual Introduction

In todays digital age, the availability of Perkin Elmer Ftir 2000 Manual books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Perkin Elmer Ftir 2000 Manual books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Perkin Elmer Ftir 2000 Manual books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Perkin Elmer Ftir 2000 Manual versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Perkin Elmer Ftir 2000 Manual books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether youre a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Perkin Elmer Ftir 2000 Manual books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Perkin Elmer Ftir 2000 Manual books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to

borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Perkin Elmer Ftir 2000 Manual books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Perkin Elmer Ftir 2000 Manual books and manuals for download and embark on your journey of knowledge?

FAQs About Perkin Elmer Ftir 2000 Manual Books

- 1. Where can I buy Perkin Elmer Ftir 2000 Manual 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 Perkin Elmer Ftir 2000 Manual 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 Perkin Elmer Ftir 2000 Manual 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 Perkin Elmer Ftir 2000 Manual 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 Perkin Elmer Ftir 2000 Manual books for free? Public Domain Books: Many classic books are available for free as theyre in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Perkin Elmer Ftir 2000 Manual:

pg e business customer service phone number

phet answer key for forces dem
pharmaceutical quality systems manual example
peugeot satelis 500 motorcycle workshop factory service repair manual
pharmacology the nursing process 7th edition test bank
peugeot xps manual english
pew report on religion
pg 56 6 circle and arcs prentice hall
peugeot elystar manual
pg 154 physics study guide answers
pfaff 2044 service manual
peugeot expert 2001 manual
pharmacotherapy dipiro 9th edition

phaeton ii manual

peugeot 407 owners manual

Perkin Elmer Ftir 2000 Manual:

polymer science gowarikar v r 9780852263075 - Apr 15 2021

lsu chemistry alum hopes to solve environmental challenges - Jun 17 2021

polymer science gowariker v r vasant r 1933 - Oct 14 2023

web polymer science vasant r gowariker n v viswanathan jayadev sreedhar new age international 1986 polymerization 505 pages

polymer science gowariker 9788122438130 amazon com books - Apr 08 2023

web jan 1 1986 3 91 34 ratings2 reviews offers basic coverage of the chemistry physics and techniques of polymer science while avoiding detailed mathematics it presents

download polymer science by v r gowariker n v - Aug 12 2023

web it is an advanced book only covering polymers their chemistry and their physical and chemical properties polymer science gowariker v r amazon in books - Jul 11 2023

web polymer science vasant gowariker wiley dec 16 1986 technology engineering 505 pages offers basic coverage of the chemistry physics and techniques of polymer

chemists image basic blocks of synthetic polymers sciencedaily - Aug 20 2021

web polymer chemistry sem vi dr ashesh garai v r gowariker former secretary department of science technology new delhi was a visiting scholar at stanford

polymer chemistry wikipedia - Mar 27 2022

web nov 6 2023 xue hui dong graduated with a b s degree in polymer chemistry from university of science and technology of china ustc in 2008 he joined department of

polymer chemistry home the home for the most innovative and - Jul~31~2022

web polymer chemistry gowariker ion exchange resins and adsorbents in chemical processing sep 21 2021 this book discusses various examples on the use of ion

alkyne substituted deoxybenzoins as precursors to - Oct 22 2021

web nov 9 2023 more information rong ye et al optical sequencing of single synthetic polymers nature chemistry 2023 doi

10 1038 s41557 023 01363 2 journal

polymer science vasant gowariker n v viswanathan - Jun 10 2023

web bibliographic information title polymer science author v r gowarikar publisher new age international pvt 2015 isbn 812243813x 9788122438130

polymer science gowariker v r viswanathan n v sreedhar - May 29 2022

web polymer science gowariker polymer science sebastião v canevarolo jr 2019 11 11 this is an introductory textbook on polymer science aimed at lecturers professors

buy polymer science book online at low prices in india - May 17 2021

polymer science gowariker university of rhode island - Feb 23 2022

web nov 13 2023 polymer chemistry chemical recycling of co2 based polycarbonates to sulfur containing polymers finally the ring opening polymerization of propylene

polymer science gowariker pdf cyberlab sutd edu sg - Jan 25 2022

web nov 13 2023 we report the synthesis and characterization of novel alkyne substituted deoxybenzoins that are setup for azide alkyne cycloaddition chemistry to yield

polymer science by v r gowarikar goodreads - Feb 06 2023

web polymer science v r gowariker n v viswanathan and jayadev sreedhar halsted press john wiley sons new york 1986 pp xv 505 price 38 50 isbn

chemists image basic blocks of synthetic polymers phys org - Jul 19 2021

web jan 1 1986 polymer science gowarikar v r v r gowariker brief content visible double tap to read full content the explanation and description about the topics in

polymer science v r gowarikar google books - May 09 2023

web jan 1 2015 topics include foundation chemistry weight size chemical and geochemical structure of polymer molecules crystallinity in polymers co polymers and polymer

polymer science v r gowariker n v wiley online library - Nov 03 2022

web the home for the most innovative and exciting polymer chemistry with an emphasis on the synthesis and applications of polymers editor in chief christopher barner kowollik

polymer science gowariker pdf free 11 pdf pdf scribd - Jun 29 2022

web polymer chemistry is a sub discipline of chemistry that focuses on the structures of chemicals chemical synthesis and chemical and physical properties of polymers and

polymer chemistry gowariker cyberlab sutd edu sg - Apr 27 2022

web polymer science gowariker polymer science jan 20 2023 cumulative book index feb 26 2021 a world list of books in the english language applied chemistry a textbook

polymer science pdf scribd - Oct 02 2022

web polymer science book by gowariker pdf polymer the book presents both the current state of polymer science and technology and emerging advances in the field

flow synthesis of conjugated polymers exploring the effects of - Sep 20 2021

web nov 13 2023 chatterjee is now an assistant professor at murray state university and is interested in developing advanced polymer materials for clean energy storage carbon

buy polymer science book online at low prices in india - Dec 04 2022

web this third edition of the classic best selling polymer science textbook surveys theory and practice of all major phases of polymer science engineering and technology including

polymer science vasant r gowariker n v viswanathan - Sep 13 2023

web polymer science author v r gowariker n v vishwanathan jayadev shreedhar category chemistry organic chemistry language english isbn 0852263074 year

polymer chemistry gowariker 2023 - Sep 01 2022

web topics dealing with chemistry physics and technology of polymers v r gowariker former secretary department of science technology new delhi was a visiting

chemical recycling of co2 based polycarbonates to sulfur - Nov 22 2021

web 2 days ago chemists image basic blocks of synthetic polymers researchers have developed a new method to image polymerization catalysis reactions one monomer at a

special issue rising stars in polymer science 2023 - Dec 24 2021

web nov 8 2023 here a conjugated polymer ptb7 was synthesized in a customized flow reactor under various catalyst and solvent combinations and their effect on molecular

polymer science by vasant r gowariker goodreads - Mar 07 2023

web buy polymer science book online at low prices in india polymer science reviews ratings amazon in 15 15 13 books higher education textbooks science

buy polymer science book online at low prices in - Jan 05 2023

web such a combination some day must have triggered off the most intriguing and fascinating process called life the material basis for whose origin was a polymer this polymer

building a vertical steam engine from castings goodreads - Mar 21 2023

web jan 1 1977 building a vertical steam engine from castings andrew smith 0 00 0 ratings0 reviews 64 pages hardcover first published january 1 1977 book details

amazon com customer reviews building a vertical steam - Nov 05 2021

building a vertical steam engine from castings by andrew etsy - Aug 14 2022

web building a vertical steam engine from castings by andrew etsy sorry this item is sold out welshheirlooms 1 511 building a vertical steam engine from castings by

building a vertical steam engine from castings hardcover - Jul 13 2022

web a very useful reference for my domestic foundrywork casting components for a vertical steam engine for my welded radio control titanic good book but unfortunately the

building a vertical steam engine from castings open library - Feb 20 2023

web building a vertical steam engine from castings by andrew smith 1980 modeland allied publications edition in english rev ed building a vertical steam engine from

building a vertical steam engine from castings - Feb 08 2022

web jan 1 1988 building a vertical steam engine from castings smith andrew on amazon com free shipping on qualifying offers building a vertical steam engine

building a vertical steam engine from castings - Aug 26 2023

web oct 1 1995 this is a fresh reprint of a succinct 63 page booklet 1995 revision that contains all the info one needs to build the 10v on a lathe and bench drill the lathe

building a vertical steam engine from castings book - Dec 18 2022

web find many great new used options and get the best deals for building a vertical steam engine from castings book at the best online prices at ebay free delivery for many

building a vertical steam engine from castings - Mar 09 2022

web building a vertical steam engine from castings popular mechanics building a portable steam engine steam using or steam engine practice making small gas fired boilers

<u>building a vertical steam engine from castings open library</u> - Nov 17 2022

web apr 30 2011 imported from talis marc record building a vertical steam engine from castings by andrew smith 1995 tee edition in english rev ed revised by

building a vertical steam engine from castings - May 23 2023

web buy building a vertical steam engine from castings new by smith andrew smith pengwern pengwern isbn 9781857610963 from amazon s book store everyday low

building a vertical steam engine from castings oxfam shop - Oct 16 2022

web product details page for building a vertical steam engine from castings is loaded

building a vertical steam engine from castings amazon com - Apr 22 2023

web jan 1 1985 this is a fresh reprint of a succinct 63 page booklet 1995 revision that contains all the info one needs to build the 10v on a lathe and bench drill the lathe

how i built my model vertical steam engine youtube - Jun 12 2022

web building a vertical steam engine from castings pengwern 392171 sep 9 2022 celebrate oeweek by watching opened21 recordings 2021 recordings

building a vertical steam engine from castings pengwern - May 11 2022

web building a vertical steam engine from castings pengwern sep 30 2021 a a hayes billionaire husband by sam crescent absalom martin 1 of 5 stars 2 of 5 stars 3 of 5

building a vertical steam engine from castings tee publishing - Jul 25 2023

web by andrew smith pengwern this book is based on the most popular of stuart turner models the no 10 range it covers the machining of all parts of the 10 v and 10h

building a vertical steam engine from castings abebooks - Jan 19 2023

web building a vertical steam engine from castings smith andrew smith pengwern pengwern published by tee publishing ltd 1995 isbn 10 1857610962 isbn 13

building a vertical steam engine from castings 2023 - Sep 27 2023

web a simple history of the steam engine building a vertical steam engine from castings downloaded from zapmap nissan co uk by guest eugene jamie model steam

building a vertical steam engine from castings 2022 checkin - Jun 24 2023

web building a vertical steam engine from castings condensed catalogues of mechanical equipment the steam engine building a vertical steam engine from castings

building a vertical steam engine from castings download - Dec 06 2021

web building a vertical steam engine from castings by andrew smith write a review how customer reviews and ratings work search sort by top reviews filter by all reviewers all

building a vertical steam engine from castings pengwern - Apr~10~2022

web building a vertical steam engine from castings 3 3 contained in small refillable or disposable tanks with over 285 colour

photographs and diagrams it includes the tools

building a vertical steam engine from castings - Sep 15 2022

web this book is based on the most popular of stuart turner models and no 10 range e covers the machining of all portions to the 10 v and 10h engines and indeed these machining

building a vertical steam engine from castings amazon com - Jan 07 2022

web building a real vertical steam engine how to build a steam engine cyclopedia of architecture carpentry and building masonry and concreting materials stone masonry

bengali computer repairing ftp vape mexico - Jan 18 2022

web computing solutions for various domains such as human computer interaction image processing sensor based single processing recommender systems and facial

bengalicomputerrepairing info novavision - Nov 15 2021

web hire the best freelance computer repair technicians near dhaka bd on upwork the world s top freelancing website it s simple to post your job and we ll quickly match you

bengalicomputerrepairing 2022 intranet2 flintcooper - Dec 17 2021

web pc world p c barua the middle east abstracts and index impact evaluation study on development of selected secondary schools government and non government pc

best desktop computer repair service at home in dhaka bd - Apr 01 2023

web best computer repair services in bangladesh find phone numbers address opening hours and reviews of the top computer repair services in bangladesh

web laptop repairing course kcti providing chip level advance laptop repairing training course with 100 practical 100 job support 100 self employment support life

computer motherboard servicing bangla tutorial - Jul 04 2023

web mar 19 2018 we are repair computer processor repair desktop laptop processor bangla tutorial your lab we are computer hardware bangla class processor repair if you

bengali computer repairing uniport edu ng - Apr 20 2022

web oct 30 2023 by chris stokel walker 29th october 2023 fixing devices and appliances is currently tricky but new consumer rights laws are seeking to change that chris stokel

repair computer processor bangla tutorial youtube - Jun 03 2023

web bangladesh 10 hr khurshed a computer repair technician 5 0 5 9 jobs computer repair windows administration database

remote it management computer

computer repair services in baguiati kolkata sulekha - Nov 27 2022

desktop pc repair servicing center in bangladesh youtube - Oct 07 2023

web oct 24 2022 ashik computer and hardware lab motherboard repairing tutorial full in bengali chiplevel repair laptop desktop desktopcourse

hire the best computer repair technicians in dhaka bd upwork - Oct 15 2021

bengali computer repairing waptac org - May 22 2022

web bengali computer repairing 1 7 downloaded from uniport edu ng on may 2 2023 by guest bengali computer repairing right here we have countless book bengali computer

laptop repairing training course kc technical institute - Sep 25 2022

web computer repair services in banga list of best computer service center in banga and get pc computer repairing cost computer repair technicians contact addresses

bengali computer repairing - Jun 22 2022

web bengali computer repairing 2 downloaded from waptac org on 2020 08 23 by guest safety emergencies pinellas county paying your property taxes city of richmond

the 10 best computer repair services in bangladesh infoisinfo - Feb 28 2023

web list of computer repairs companies in bangladesh computer repairs technician fix technical support in bangladesh $microsoft\ translator\ official\ app\ in\ the\ microsoft\ store$ - Dec 29 2022

web dell service center baguiati kolkata 700059 5 0 5 based on 1 reviews computer repair services computer repair services computer amc services working hours 11 am

how the right to repair might change technology bbc future - Mar 20 2022

web may 7 2023 bengali computer repairing 3 8 downloaded from uniport edu ng on may 7 2023 by guest industry analysis and practical solutions help you make better buying

how to repair any laptop power problem basic idea in bangla - Sep 06 2023

web oct 27 2018 repair any laptop power problem basic idea in banglaashik computer official website bit ly 2iaogdsofficial pchelpline page bit ly 2irkwhtpl

top 10 computer repair services in banga sulekha banga - Aug 25 2022

web bengali computer repairing pc world 1996 computational vision and bio inspired computing s smys 2022 03 30 this book includes selected papers from the 5th

bengali computer repairing uniport edu ng - Feb 16 2022

web bengali computer repairing graphic sports consuming cultural hegemony pc mag pc mag pc mag pc mag sound clash library of congress subject headings computer

computer repairs in bangladesh expat com - Jan 30 2023

web microsoft translator is a free personal translation app for more than 70 languages to translate text voice conversations camera photos and screenshots

bengali computer repairing waptac org - Jul 24 2022

web oct 1 2023 bengali computer repairing defunct chinese space lab tiangong 1 mostly destroyed the best mechanics and auto garages in doha gatar living

hire the best computer repair technicians in bangladesh upwork - May 02 2023

web best desktop computer repair service at home in dhaka bd sheba xyz looking for desktop computer repair and service center near you sheba xyz has expert engineers

how to repairing computer motherboard and fix any problem - Aug 05 2023

web aug 30 2017 how to repairing computer motherboard and fix any problem bangla tutorial part1 ashik computer and hardware lab 119k subscribers subscribe share 6 9k views 5 years ago hdd