

The annual cost in terms of SO₂ removed, or cost effectiveness, is calculated using Equation 1.32:

$$\text{Annual Cost Effectiveness} = \frac{TAC}{SO_2 \text{ removed}} = \frac{\$29,835,948/\text{year}}{54,150 \text{ tons/year}} = \$551/\text{ton}$$

1.2.5 Dry Flue Gas Desulfurization Systems

This section focuses on dry FGD systems used to control emissions of acid gases, such as HCl, SO₂ and sulfur trioxide (SO₃). Dry FGD systems can be used to control gas streams with typical SO₂ pollutant concentrations ranging from 250 to 1,000 ppmv (approximately 2 lb/MMBtu). These systems provide removal efficiencies between 50% and 95%.

In the past, dry FGD systems were typically installed on smaller boilers, furnaces, and incinerators. However, in recent years, some newer dry FGD systems have been installed on combustion units larger than 500 MW (5,000 MMBtu/hour) burning bituminous and subbituminous coal. Dry FGD systems typically have lower capital and operating costs and require less space than wet FGD systems, but generally use more expensive types of sorbent. [2, 16]

1.2.5.1 Process Description

Three basic types of dry FGD systems are currently available: dry sorbent injection (DSI), spray dryer absorber (SDA), and a post combustion circulating dry scrubber (CDS). In this section, we describe the SDA and CDS systems. DSI systems are not covered in this chapter as mentioned earlier in Section 1.1.

Spray Drying Absorber Systems

The SDA system is a semi-dry system that injects an aqueous slurry with a high concentration of sorbent into the flue gas stream. A diagram of a typical SDA system is shown in Figure 1.3. The SDA system requires a separate absorber vessel. The high temperature of the flue gas entering the absorber chamber causes the water to evaporate and the pollutants in the flue gas are absorbed to and react with the surface of the sorbent. Water remaining on the solid sorbent surface promotes the reaction with the acid gases. However, the amount of water entering the absorber must be carefully controlled to avoid saturating the gas stream. Saturation can cause the solids to adhere to components inside the absorber and particulate collection device. To avoid the buildup of solids, the water fed into the spray dryer is controlled to avoid saturation of the flue gas but maintain high SO₂ removal. The flue gas in the absorber chamber is typically maintained so that it approaches but remains above adiabatic saturation to achieve optimal pollutant removal. Temperatures between 20 and 30°F above the saturation temperature are typically considered optimal. [14, 30]

SDA systems use either calcium or sodium-based sorbents. However, most SDA systems use lime as the sorbent since it is more reactive than limestone, easier to manage than limestone, and less expensive than sodium-based reagents. The typical SDA system operates at a lime to

Wet Scrubber Spray Dry Manual

EW Minium



Wet Scrubber Spray Dry Manual:

Handbook of Industrial Drying Arun S. Mujumdar, 2014-07-11 This Fourth Edition book includes 12 new chapters covering computational fluid dynamic simulation solar impingement and pulse combustion drying drying of fruits vegetables sugar biomass and coal physicochemical aspects of sludge drying and life cycle assessment of drying systems Addressing commonly encountered dryers as well as innovative dryers with future potential the fully revised text not only delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations to increase energy efficiency and cost effectiveness **Handbook of Industrial Drying, Fourth Edition**

Arun S. Mujumdar, 2014-07-11 By far the most commonly encountered and energy intensive unit operation in almost all industrial sectors industrial drying continues to attract the interest of scientists researchers and engineers The Handbook of Industrial Drying Fourth Edition not only delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations New to the Fourth Edition Computational fluid dynamic simulation Solar impingement and pulse combustion drying Drying of fruits vegetables sugar biomass and coal

Physicochemical aspects of sludge drying Life cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential the Handbook of Industrial Drying Fourth Edition not only details the latest developments in the field but also explains how improvements in dryer design and operation can increase energy efficiency and cost effectiveness **Internal Combustion Engine Manual** Frank Ward Sterling, 1911 **Spray Drying Handbook**

Keith Masters, 1985 This edition reflects the changes which have occurred in spray drying technology and plant design since the publication of the fourth edition The author argues that spray drying will remain the most important dehydration technique available to convert pumpable fluid feedstocks into powders Topics covered include the drying principles a survey of auxiliary equipment and the applications of spray drying in industry There is a new chapter on spray drying in environmental control and there is a list of spray drying patents issued within the last five years This edition also contains more data and tables that cover operation and design information for a wide range of products Provided by the publisher

Pollution Control Handbook for Oil and Gas Engineering Nicholas P. Cheremisinoff, 2016-04-20 This is a major new handbook that covers hundreds of subjects that cross numerous industry sectors however the handbook is heavily slanted to oil and gas environmental management control and pollution prevention and energy efficient practices Multi media pollution technologies are covered air water solid waste energy Students technicians practicing engineers environmental engineers environmental managers chemical engineers petroleum engineers and environmental attorneys are all professionals who will benefit from this major new reference source The handbook is organized in three parts Part A provides an extensive compilation of abbreviations and concise glossary of pollution control and engineering terminology More than 400 terms are defined The section is intended to provide a simple look up guide to confusing terminology used in the regulatory field as well

as industry jargon Cross referencing between related definitions and acronyms are provided to assist the user Part B provides physical properties and chemical safety information This part is not intended to be exhaustive however it does provide supplemental information that is useful to a number of the subject entries covered in the main body of the handbook Part C is the Macropedia of Subjects The part is organized as alphabetical subject entries for a wide range of pollution controls technologies pollution prevention practices and tools computational methods for preparing emission estimates and emission inventories and much more More than 100 articles have been prepared by the author providing a concise overview of each subject supplemented by sample calculation methods and examples where appropriate and references Subjects included are organized and presented in a macropedia format to assist a user in gaining an overview of the subject guidance on performing certain calculations or estimates as in cases pertinent to preliminary sizing and selection of pollution controls or in preparing emissions inventories for reporting purposes and recommended references materials and web sites for more in depth information data or computational tools Each subject entry provides a working overview of the technology practice piece of equipment regulation or other relevant issue as it pertains to pollution control and management Cross referencing between related subjects is included to assist the reader to gain as much of a practical level of knowledge *Manual for Deicing Chemicals*, 1979 **Department of Housing and Urban Development and certain independent agencies appropriations for fiscal year 1988** United States. Congress. Senate. Committee on Appropriations. Subcommittee on HUD-Independent Agencies, 1987 **Department of Housing and Urban Development and Certain Independent Agencies Appropriations for Fiscal Year 1988: American Battle Monuments Commission** United States. Congress. Senate. Committee on Appropriations. Subcommittee on HUD-Independent Agencies, 1987 *Manual*, 1993 *Wet Scrubbers* Howard D. Hesketh, 2017-11-22 A basic technical book on the design and application of gas cleaning technologies that use liquids first published in the 1980 s and used by plant and environmental engineers regulatory personnel and others concerned with air pollution The second edition enlarges the discussion on the theory of **Pollution Prevention Handbook** Thomas E. Higgins, 1995-03-29 The Pollution Prevention Handbook provides the necessary tools to set up a successful pollution program implement specific projects to meet environmental regulation and improve efficiency and product quality Methods used to reduce waste generation are illustrated and new treatment methods to reduce the volume or toxicity of waste are described Practical examples illustrate key concepts and numerous case studies provide successful programs found in the real world The text is divided into three major sections *Audels Gas Engine Manual*, 1908 **Air Pollution Control Engineering for Environmental Engineers** Jeff Kuo, 2018-11-23 Air pollution control and air quality engineering are some of the key subjects in any environmental engineering curriculum This book will cover topics that are fundamental to pollution control engineers and professionals including air pollution and its management through regulatory approaches calculating and estimating emissions and applying con **Energy Research Abstracts**, 1987 *Wet*

Scrubbers, Second Edition Howard D. Hesketh, Kenneth C. Schiffner, 1996-02-20 A basic technical book on the design and application of gas cleaning technologies that use liquids first published in the 1980 s and used by plant and environmental engineers regulatory personnel and others concerned with air pollution The second edition enlarges the discussion on the theory of operation includes new sections on hybrid scrubber systems and irrigated fiberbed filters that use Brownian motion capture techniques and incorporates the more stringent air pollution regulations Annotation copyright by Book News Inc Portland OR

Fossil Energy Update ,1981 EPA Research Program Guide United States. Environmental Protection Agency. Office of Research and Development,1984 *EPA Research Program Guide* United States. Environmental Protection Agency,1985 *Air Pollution Engineering Manual* Air & Waste Management Association,1992 THE AIR WASTE MANAGEMENT ASSOCIATION is the world s leading membership organization for environmental professionals The Association enhances the knowledge and competency of environmental professionals by providing a neutral forum for technology exchange professional development networking opportunities public education and outreach events The Air Waste Management Association promotes global environmental responsibility and increases the effectiveness of organizations and individuals in making critical decisions that benefit society

Fundamentals of Air Pollution Daniel A. Vallero,2014-07-26 Fundamentals of Air Pollution is an important and widely used textbook in the environmental science and engineering community This thoroughly revised fifth edition of Fundamentals of Air Pollution has been updated throughout and remains the most complete text available offering a stronger systems perspective and more coverage of international issues relating to air pollution Sections on pollution control have been reorganized and updated to demonstrate the move from regulation and control approaches to green and sustainable engineering approaches The fifth edition maintains a strong interdisciplinary approach to the study of air pollution covering such topics as chemistry physics meteorology engineering toxicology policy and regulation New material includes near road air pollution new risk assessment approaches indoor air quality the impact of biofuels and fuel additives mercury emissions forecasting techniques and the most recent results from the National Air Toxics Assessment Stronger systems approach emphasizing the impact of air pollution on ecosystems and human health Risks measures models and control of air pollution are discussed at scale starting at the individual niche level and expanding to planetary global scale Increased emphasis on international issues including coverage of European initiatives and discussions of the impact of emerging economies like India and China Updated references standards and methods throughout the book make this the most current air pollution text reference on the market All new end of chapter problems enhance its usefulness as a course text

Wet Scrubber Spray Dry Manual 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 capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Wet Scrubber Spray Dry Manual**, a literary masterpiece that delves deep into 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 will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

<http://www.frostbox.com/files/uploaded-files/Documents/Zak%20Seal%20Team%20Seven%20Book%20English%20Edition.pdf>

Table of Contents Wet Scrubber Spray Dry Manual

1. Understanding the eBook Wet Scrubber Spray Dry Manual
 - The Rise of Digital Reading Wet Scrubber Spray Dry Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Wet Scrubber Spray Dry 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 Wet Scrubber Spray Dry Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wet Scrubber Spray Dry Manual
 - Personalized Recommendations
 - Wet Scrubber Spray Dry Manual User Reviews and Ratings

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

Wet Scrubber Spray Dry Manual Introduction

Wet Scrubber Spray Dry Manual 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. Wet Scrubber Spray Dry Manual Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Wet Scrubber Spray Dry Manual : 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 Wet Scrubber Spray Dry Manual : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Wet Scrubber Spray Dry Manual Offers a diverse range of free eBooks across various genres. Wet Scrubber Spray Dry Manual Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Wet Scrubber Spray Dry Manual Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Wet Scrubber Spray Dry Manual, especially related to Wet Scrubber Spray Dry Manual, might be challenging as theyre 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 Wet Scrubber Spray Dry Manual, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Wet Scrubber Spray Dry Manual books or magazines might include. Look for these in online stores or libraries. Remember that while Wet Scrubber Spray Dry Manual, sharing copyrighted material without permission is not legal. Always ensure youre 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 Wet Scrubber Spray Dry Manual 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 Wet Scrubber Spray Dry Manual 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 Wet Scrubber Spray Dry Manual eBooks, including some popular titles.

FAQs About Wet Scrubber Spray Dry Manual Books

1. Where can I buy Wet Scrubber Spray Dry 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 Wet Scrubber Spray Dry 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 Wet Scrubber Spray Dry 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 Wet Scrubber Spray Dry 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 Wet Scrubber Spray Dry Manual 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 Wet Scrubber Spray Dry Manual :

~~zak seal team seven book english edition~~

~~yeast population study answers~~

yerf dog brake master cylinder

~~yoga an introduction to yoga~~

~~york r410a user guide~~

year maths test papers level 6

~~yorkville nx200s user guide~~

zalman cnps95 installation guide

~~year 5 comprehension books~~

~~zafira a wiring diagram~~

~~z le fantocircme de chemin joseph~~

~~zenith dtt 9 instruction manual~~

~~zambian grade 12 past papers~~

~~z 5500 fuse~~

~~yes you cannes hqn~~

Wet Scrubber Spray Dry Manual :

Financial Accounting Theory by Scott, William William Scott. Financial Accounting Theory. 7th Edition. ISBN-13: 978-0132984669, ISBN-10: 0132984660. 4.7 4.7 out of 5 stars 47 Reviews. 3.6 on Goodreads. (65). William R. Scott | FINANCIAL ACCOUNTING THEORY Financial accounting theory / William R. Scott. - Seventh edition. Includes bibliographical references and index. ISBN 978-0-13-298466-9 (bound). Financial Accounting Theory (7th... by William Rufus Scott Financial Accounting Theory (7th Edition) by William R. Scott (2015-02-20) ; Payment. Secure transaction ; Print length. 0 pages ; Publisher. Pearson ; Publication ... Financial Accounting Theory - Scott, William Financial Accounting

Theory provides a thorough presentation of financial accounting theories. This new edition continues to include considerable coverage ... Results for "Scott Financial-Accounting-Theory-7th-Edition" Search results. Financial Accounting Theory. 8th Edition. William R. Scott, Patricia O'Brien. ISBN-13: 9780134166681. Print for £187.56. Search results. We didn't ... Financial Accounting Theory | Rent | 9780132984669 ISBN-13: 9780132984669 ; Authors: William R Scott, William Scott ; Full Title: Financial Accounting Theory ; Edition: 7th edition ; ISBN-13: 978-0132984669. Financial accounting theory | WorldCat.org Financial accounting theory ; Author: William R. Scott ; Edition: 7. ed View all formats and editions ; Publisher: Pearson, Toronto, 2015. Financial Accounting Theory (7th Edition) (Hardcover) Financial Accounting Theory (7th Edition) (Hardcover); Author: by William R. Scott; Book Condition: Used - Fine; Quantity Available: 1; Edition: 7th; Binding ... Financial Accounting Theory by William R. Scott This newly revised text provides a theoretical approach to financial accounting in Canada, without overlooking institutional structure and standard setting. Financial Accounting Theory (7th Edition) - AbeBooks Synopsis: Financial Accounting Theory provides a thorough presentation of financial accounting theories. This new edition continues to include considerable ... THE NUMBER LINE: AN AUXILIARY MEANS OR AN ... by C Skoumpourdi · Cited by 19 — Abstract. The aim of this paper is to investigate the ways in which the number line can function in solving mathematical tasks by first graders (6 year ... (PDF) The number line: an auxiliary means or an obstacle? ... The aim of this paper is to investigate the ways in which the number line can function in solving mathematical tasks by first graders (6 year olds). The Number Line: An Auxiliary Means or an Obstacle? - ERIC by C Skoumpourdi · 2010 · Cited by 19 — The main research question was whether the number line functioned as an auxiliary means or as an obstacle for these students. Through analysis ... The Number Line - subtraction, and measurement The number line is not just a school object. It is as much a mathematical idea as functions. Unlike the Number Line Hotel, hundreds charts, Cuisenaire rods, and ... What is a Number Line? | Definition and Examples A number line is useful because it acts as a visual math aid. It can support teachers and parents as they teach children how to count and write numbers. It's ... Common Core State Standards for Mathematics figure and can use the strategy of drawing an auxiliary line for solving problems. ... Understand a fraction as a number on the number line; represent fractions ... how kindergartners use auxiliary means to solve problems Sep 3, 2010 — The aim of this paper is to investigate the role that auxiliary means (manipulatives such as cubes and representations such as number line) ... Number Line - Definition, Examples | Inequalities A number line is a visual representation of numbers on a straight line. This line is used to compare numbers that are placed at equal intervals on an infinite ... Massachusetts Mathematics Curriculum Framework — 2017 ... auxiliary line for solving problems. They also can step ... Understand a fraction as a number on the number line; represent fractions on a number line diagram. Michigan Math Standards figure and can use the strategy of drawing an auxiliary line for solving problems. ... A diagram of the number line used to represent numbers and support ... Mercedes-Benz OM366 engine The Mercedes-Benz OM366 is a 6.0 liter (5,958cc) Straight-6 (I6)

Overhead Valve (OHV) diesel engine with 2 valves per cylinder. Mercedes Benz OM366LA Engine Overhaul Kit Buy Mercedes Benz OM366LA Engine Overhaul Kit from Heavy Duty Kits at Discounted Rates. Quality Parts, 2 Years Warranty. Free Shipping. Modifying an OM364/366LA Engine Jul 2, 2021 — Has anyone modified an OM364LA or OM366LA engine to get more horsepower? If so what did you do? Which turbo did you go with? OM366A and 366LA differences Jan 29, 2010 — I know this because Mercedes used to do 1220, 1222 and 1224 trucks all with the 366 LA engine-where 12 is the weight and e.g the 24 is 240BHP. Mercedes OM366 Diesel engine.... #shorts - YouTube Mercedes Benz Om366 Engine With a wide range of engines in our listing, you can find om366 diesel engines that are perfect for this type of vehicle. Diesel engines are suitable for a cool ... CNG Engine OM 366LA Engine OM366LA NG. Engine OM366 NG. Turbo w/Air-to-Air Intercooler (T). Normally Aspirated (NA) ; Cylinders Bore & Stroke Displacement, 6 Inline 97,5 mm x 133mm OM366 Spec | PDF Technical Data Mercedes-Benz Industrial Diesel Engine OM 366 97 kW OM 366 - OM 366A OM366LA Technical Data. 'The OM 366 in-line engine is part of the ... Mercedes OM366 specs, bolt torques and manuals OM366 Diesel Engine Specs ; Displacement ; OM366N 5.958 liter, 346 CID ; Bore 97.5 mm, 3.839 in ; Stroke 133.0 mm, 5.236 in ; Compression ratio 17.25:1 Naturally ... Mercedes Benz OM366LA Turbo CHRA 169109 Description. This is a New Mercedes Benz OM366LA Turbo CHRA 169109. We stand behind our products with a Full 1 Year Warranty Unlimited Mileage, ...