

SUMMARY TABLES

Refresh

Export

Insert table

ModulesRacksInvertersCables

DCAC

Apply changes to Individual

Strings			Totals	
Total Qty (pcs)	Total Length (m)	Total Voltage Drop	Total V Drop	Avg %
1290	14633.88 m	645.63 V	645.63 V	1.57 %

String Number	Qty (pcs)	Length (m)	Cable (IEC 60228)	Voltage Drop	Voltage Drop %	Voltage Drop	Voltage Drop %
1.1.A.1	12	98.35 m	Copper 4 mm <sup>2</sup>	6.61 V	1.73 %	6.61 V	1.73 %
1.1.A.2	12	108.15 m	Copper 4 mm <sup>2</sup>	7.27 V	1.91 %	7.27 V	1.91 %
1.1.B.1	12	101.15 m	Copper 4 mm <sup>2</sup>	6.80 V	1.78 %	6.80 V	1.78 %
1.1.B.2	12	110.95 m	Copper 4 mm <sup>2</sup>	7.46 V	1.95 %	7.46 V	1.95 %
1.1.C.1	12	78.25 m	Copper 4 mm <sup>2</sup>	5.26 V	1.38 %	5.26 V	1.38 %
1.1.C.2	12	88.55 m	Copper 4 mm <sup>2</sup>	5.95 V	1.56 %	5.95 V	1.56 %
1.1.D.1	12	81.05 m	Copper 4 mm <sup>2</sup>	5.45 V	1.43 %	5.45 V	1.43 %
1.1.D.2	12	91.35 m	Copper 4 mm <sup>2</sup>	6.14 V	1.61 %	6.14 V	1.61 %
1.1.E.1	12	58.65 m	Copper 2.5 mm <sup>2</sup>	6.36 V	1.67 %	6.36 V	1.67 %
1.1.E.2	12	68.45 m	Copper 2.5 mm <sup>2</sup>	7.42 V	1.95 %	7.42 V	1.95 %
1.1.F.1	12	61.45 m	Copper 2.5 mm <sup>2</sup>	6.66 V	1.75 %	6.66 V	1.75 %

# Guide To Cable Calculations

**Institution of Civil Engineers (Great  
Britain)**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the text box.

## **Guide To Cable Calculations:**

*Electrical Installation Calculations* A. J. Watkins, Chris Kitcher, 2006 *Electrical Installation Calculations* is a three volume guide for trainee electricians containing worked examples of the calculations needed for City Guilds 2330 Level 2 Certificate in electrotechnical technology      **Electrical Installation Calculations: Basic** A.J. Watkins, 2010-09-08 Designed to provide a step by step guide to successful application of the electrical installation calculations required in day to day electrical engineering practice the *Electrical Installation Calculations* series has proved an invaluable reference for over forty years for both apprentices and professional electrical installation engineers alike Now in its eighth edition Volume 1 has been fully updated in line with the 17th Edition IEE Wiring Regulations BS 7671 2008 and references the material covered to the Wiring Regs throughout The content meets the requirements of the 2330 Level 2 Certificate in Electrotechnical Technology from City Guilds Essential calculations which may not necessarily feature as part of the requirements of the syllabus are retained for reference by professional electrical installation engineers based in industry or for those students wishing to progress to higher levels of study The book's structure and new design make finding the required calculation easy Key terms are explained in a glossary section and worked examples and exercises are included throughout the text to maximise accessibility of the material for the reader A complete question and answer section is included at the back of the book to enable readers to check their understanding of the calculations presented Also available *Electrical Installation Calculations* Volume 2 7th edn by Watkins Kitcher the calculations required for advanced electrical installation work and Level 3 study and apprenticeships      **Electrical Installation Calculations** Albert James Watkins, Chris Kitcher, 2009 Volume 1 has been fully updated in line with the 17th Edition IEE Wiring Regulations BS 7671 2008 and references the material covered to the Wiring Regs throughout The content meets the requirements of the 2330 Level 2 Certificate in Electrotechnical Technology from City Guilds Publisher's website      **Electrical Installation Calculations** Christopher Kitcher, 2022-06-15 Now in its 10th edition *Electrical Installation Calculations Basic* has been updated to include any changes required to bring it in line with the 18th edition of the IET electrical wiring regulations BS7671 2018 Electrical calculations required for exams can prove difficult to master but for more than 40 years this book series has proved very helpful to students and professional electrical engineers studying for electrical qualifications It covers all the calculations required for Level 2 electrical qualifications along with other useful calculations that may be used in the electrical industry but may not feature in the syllabus of some exams Although the calculations in this book are referred to as basic they form the foundation of all calculations carried out in the electrical industry which have been set out simply with worked examples along with additional questions and answers Key terms are explained in a glossary which can be used to assist with the reader's understanding      *Calculation of Electric Conductors* William Thomas Taylor, 1919      *Lloyd's Register One Ocean's Guide to Port Entry* 1995-96 *Albania-Kuwait* Lloyd's Register Foundation, 1995-01-01 First published in 1971 these Guides provide invaluable

information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams

**Electrical Installation Calculations: Advanced A.J.**

Watkins,2009-10-26 Designed to provide a step by step guide to successful application of the electrical installation calculations required in day to day electrical engineering practice the Electrical Installation Calculations series has proved an invaluable reference for over forty years for both apprentices and professional electrical installation engineers alike Now in its seventh edition Volume 2 has been fully updated in line with the 17th Edition IEE Wiring Regulations BS 7671 2008 and references the material covered to the Wiring Regs throughout The content meets the requirements of the 2330 Level 3 Certificate in Electrotechnical Technology from City Guilds and will also prove a vital purchase for those undertaking Level 3 NVQs in Electrotechnical Services Essential calculations which may not necessarily feature as part of the requirements of the syllabus are retained for reference by professional electrical installation engineers based in industry or for those students wishing to progress to higher levels of study The book s structure and new design make finding the required calculation easy Key terms are explained in a glossary section and worked examples and exercises are included throughout the text to maximise accessibility of the material for the reader A complete question and answer section is included at the back of the book to enable readers to check their understanding of the calculations presented Also available Electrical Installation Calculations Volume 1 8th edn by Watkins Kitcher the basic calculations required for electrical installation work and Level 2 study and apprenticeships

*NASA Tech Briefs* ,1976

Electrical Installation Calculations: Advanced Christopher Kitcher,2013-10-23 All the essential calculations required for advanced electrical installation work The Electrical Installation Calculations series has proved an invaluable reference for over forty years for both apprentices and professional electrical installation engineers alike The book provides a step by step guide to the successful application of electrical installation calculations required in day to day electrical engineering practice A step by step guide to everyday calculations used on the job An essential aid to the City Guilds certificates at Levels 2 and 3 For apprentices and electrical installation engineers Now in its eighth edition this book is in line with the amendments to the 17th Edition IET Wiring Regulations BS 7671 2008 and references the material covered in the Wiring Regulations throughout The content also meets the requirements of the latest Level 3 Diploma qualifications from City Guilds including the 2365 and 2357 Essential calculations which may not necessarily feature as part of the requirements of the syllabus are retained for electrical installation engineers and students wishing to progress to higher levels of study Key terms are explained in a glossary section and worked examples and exercises are included throughout the text A complete question and answer section is included at the back of the book to enable readers to

check their understanding of the calculations presented

**Engineering Abstracts from the Current Periodical Literature of Engineering and Applied Science, Published Outside the United Kingdom** Institution of Civil Engineers (Great Britain),1928      Accessories for HV and EHV Extruded Cables Pierre Argaut,2023-05-31 This CIGRE Green book on accessories for HV and EHV extruded cables covers relevant issues in cable system design cable design and submarine cables including offshore generation connection It provides comprehensive and unbiased information essential recommendations and guidelines for design installation testing and maintenance of accessories to professionals through the exceptional expertise of the authors The publication is divided in two volumes covering land and submarine applications HVAC and HVDC systems and transitions from lapped cable systems to extruded cable systems from OHL to UG cables and from cables to substations It equips the reader with recommendations for testing installation maintenance and remaining life management This volume is dedicated to Land and Submarine AC DC Applications while Volume 1 deals with Components The book compiles the results of the work achieved by several Working Groups and Task Forces of CIGRE Study Committee 21 B1 and Joint Working Groups and Joint Task Forces with other Study Committees Many experts from Study Committees 21 B1 Insulated Cables 15 D1 Materials and Emerging Test Techniques 33 B3 Substations C3 System Environmental Performance and C4 System Technical Performance have participated in this work in the last 30 years in order to offer comprehensive continuous and consistent outputs

**Monthly Catalog of United States Government Publications** ,1976      **2400 Business Books and Guide to Business Literature** Linda H. Morley,Adelaide C. Kight,1920      **2100 Business Books, and Guide to Business Literature** Newark Public Library. Business Branch,1920      **2400 Business Books and Guide to Business Literature** New Jersey. Public Library,1920      **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office,2000      *Bridge Engineering Handbook* Wai-Fah Chen,Lian Duan,2023-01-06 First Published in 1999 The Bridge Engineering Handbook is a unique comprehensive and state of the art reference work and resource book covering the major areas of bridge engineering with the theme bridge to the 21st century This third volume includes sections covering construction and maintenance special topics and worldwide practice      Hearings United States. Congress. Senate. Committee on Commerce,1970      **Index of Patents Issued from the United States Patent Office** United States. Patent Office,1953      Monthly Catalogue, United States Public Documents ,1978

## Reviewing **Guide To Cable Calculations**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Guide To Cable Calculations**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

[http://www.armchairempire.com/About/uploaded-files/Download\\_PDFS/Komatsu\\_240\\_Manual\\_Operador\\_Gratuito.pdf](http://www.armchairempire.com/About/uploaded-files/Download_PDFS/Komatsu_240_Manual_Operador_Gratuito.pdf)

### **Table of Contents Guide To Cable Calculations**

1. Understanding the eBook Guide To Cable Calculations
  - The Rise of Digital Reading Guide To Cable Calculations
  - Advantages of eBooks Over Traditional Books
2. Identifying Guide To Cable Calculations
  - 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 Guide To Cable Calculations
  - User-Friendly Interface
4. Exploring eBook Recommendations from Guide To Cable Calculations
  - Personalized Recommendations
  - Guide To Cable Calculations User Reviews and Ratings
  - Guide To Cable Calculations and Bestseller Lists

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

## Guide To Cable Calculations Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Guide To Cable Calculations PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal



growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Guide To Cable Calculations PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Guide To Cable Calculations free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

### FAQs About Guide To Cable Calculations Books

1. Where can I buy Guide To Cable Calculations 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 Guide To Cable Calculations 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 Guide To Cable Calculations 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 Guide To Cable Calculations 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 Guide To Cable Calculations 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 Guide To Cable Calculations :

[komatsu 240 manual operador gratuito](#)

[komatsu pc20 7 hydraulic excavator operation maintenance manual s n 35001 and up](#)

**kompass d nische s dsee deutsche ostsee**

[kodak easyshare z981 manual](#)

[komik tate no yuusha chapter 1 bahasa indonesia](#)

[komatsu fg 40 manual](#)

*komatsu wa200 1 wheel loader service repair workshop manual*

[komatsu 25 forklift manuals](#)

**kodak guide to 35mm photography kodak publication**

[kohler 8eozd marine generator service manual](#)

*komatsu pc78mr 6 excavator service shop manual*

**komatsu pc58uu 3 hydraulic excavator workshop service repair manual 20001 and up**

*kohler courage vertical xt7 xt 7 service workshop manual*

**komori sprint ii 28pservice manual**

**komatsu wb142 5 backhoe loader operation maintenance manual**

### **Guide To Cable Calculations :**

Telecommunications Distribution Methods Manual, 13th ... The 13th edition TDMM continues to emphasize recommendations for best practices drawn from experts around the world, while providing deep reference information ... Telecommunications Distribution Methods Manual The Telecommunications Distribution Methods Manual (TDMM) is BICSI's flagship manual. Now in its 14th edition, it is the basis for the RCDD® exam and has become ... I have a 13th Edition TDMM Manual, is it enough to pass ... Why Vienna's housing is so affordable compared to Amsterdam? r/Netherlands - Why Vienna's housing is so affordable compared to Amsterdam? Telecommunications Distribution Methods Manual ... TDMM, 13th edition, provides critical design information and practice for today's and tomorrow's networks. The TDMM has incorporated new information to ... BICSI releases 13th edition of TDMM Jan 7, 2014 — BICSI releases 13th edition of TDMM ... Updated manual now includes information on the design of distributed antenna systems, passive optical ... Telecommunications Distribution Methods Manual (TDMM ... To: TDMM 13th edition manual owners. From: Clarke W. Hammersley, BICSI Director of Publications Please be advised that BICSI has recently published technical ... BICSI: Books Bicsi Information Technology Systems Installation Methods Manual. by BICSI ... Telecommunications Distribution Methods Manual, 13th Edition. by Bicsi Bicsi. BICSI releases 13th ed Telecommunications Distribution ... Jan 7, 2014 — TDMM has been the definitive reference manual for ITS, telecom and information communications technology infrastructure design since 1984, says ... TELECOMMUNICATIONS DISTRIBUTION DESIGN GUIDE Jun 1, 2022 — BICSI TDMM 13th Edition (the subsection numbers below are in the form of 4.x where x corresponds with the chapter number in the BICSI TDMM). TDMM 14th vs 13th edition Home. Shorts. Library. this is hidden. this is probably aria hidden. TDMM 14th vs 13th edition. Ventoux Learning Network. 8 videosLast updated on Jun 19, 2020. Flawless Execution: Use the Techniques... by Murphy ... This book is an excellent recap of military strategy and tactic turned civilian. Murphy presents clear ideas on how these processes have been adapted for use in ... Flawless Execution: Use the Techniques... by Murphy ... According to former U.S. Air Force pilot-turned-management guru James D. Murphy, businesses need to take a lesson from the American military's fighter pilots. Flawless Execution Techniques Americas Business Summary: Flawless Execution - BusinessNews. Publishing, 2013-02-15. The must-read summary of James Murphy's book: "Flawless Execution: Use the Techniques. Flawless Execution: Use the Techniques and Systems ... Flawless Execution: Use the Techniques and Systems of America's Fighter Pilots to Perform at Your Peak and Win the Battles of the Business World. Flawless Execution: Use the Techniques and Systems ... Flawless Execution: Use the Techniques and Systems of America's Fighter Pilots to Perform at Your Peak and Win the Battles of the

Business World. Use the Techniques and Systems of America's Fighter Pilots to ... Flawless Execution: Use the Techniques and Systems of America's Fighter Pilots to Perform at Your Peak and Win the Battles of the Business World ... By: Murphy, ... Flawless Execution: Use the Techniques and Systems of ... Flawless Execution: Use the Techniques and Systems of America's Fighter Pilots to Perform at Your Peak and Win the Battles of the Business World. James D. Flawless Execution : Use the Techniques and Systems of ... Flawless Execution : Use the Techniques and Systems of America's Fighter ... Murphy, businesses need to take a lesson from the American military's fighter pilots. Flawless Execution: Use the Techniques and Systems of ... Jun 1, 2006 — Your business can take a lesson from the American military's fighter pilots. At Mach 2, the instrument panel of an F-15 is screaming out ... Flawless Execution: Use the Techniques and Systems ... Nov 16, 2010 — Flawless Execution: Use the Techniques and Systems of America's Fighter Pilots to Perform at your Peak and Win Battles in the Business World. America Firsthand, Volume 1: Readings from Settlement to ... Discover history through the words and creative expressions of the ordinary and extraordinary Americans who shaped it in the primary source reader, America ... America Firsthand, Volume 2, 10th Edition - Macmillan Learning American history told by everyday Americans. This distinctive, class-tested primary source reader tells America's story through the words and other creative ... America Firsthand: Volume One: Readings from Settlement ... With its distinctive focus on ordinary people, this primary documents reader offers a remarkable range of perspectives on Americas history from those who ... America Firsthand, Volume 2 10th Edition | Anthony Marcus Discover history through the words and creative expressions of the ordinary and extraordinary Americans who shaped it in the primary source reader, ... America Firsthand, Volume 1: Readings from Settlement to ... Synopsis: Discover history through the words and creative expressions of the ordinary and extraordinary Americans who shaped it in the primary source reader, ... America Firsthand, Volume 2 Engage in history through the words and creative expressions of the ordinary and extraordinary Americans who shaped it in the primary source reader, America ... America Firsthand: Volume One: Readings from Settlement ... One of the most widely adopted primary source U.S. history readers, America Firsthand presents history in the words of the people who made it, inviting and ... America Firsthand, Volume 2: Readings from ... Engage in history through the words and creative expressions of the ordinary and extraordinary Americans who shaped it in the primary source reader, America ... America Firsthand, Volume 1 10th Edition | Anthony Marcus Engage in history through the words and creative expressions of the ordinary and extraordinary Americans who shaped it in the primary source reader, America ... America Firsthand, Volume I: Readings... book by David ... This distinctive, class-tested primary source reader tells America's story through the words and other creative expressions of the ordinary and ...