

OXFORD ENGLISH FOR CAREERS

ENGINEERING 1 TEACHERS

RESOURCE

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Can you study to be a teacher at Oxford University? Education. Oxford has been a major contributor to the field of education for over 100 years and today the University's Department of Education has a world class reputation for research, for teacher education and for its graduate courses.

Does Oxford University teach engineering? The Department of Engineering Science brings together the study of all branches of engineering at Oxford. It has a community of around 550 graduate students at any given time. The department has a substantial research portfolio, including much that is directly supported by industry.

How much is an Oxford professor paid? Average University of Oxford Professor yearly pay in the United Kingdom is approximately £113,545, which is 57% above the national average. Salary information comes from 44 data points collected directly from employees, users, and past and present job advertisements on Indeed in the past 36 months.

What is the acceptance rate for Oxford PGCE? 1 in 3 applicants to this programme received an offer. Data shown above is for entry in academic year 2023/24 (sources).

Is Oxford better for engineering than Cambridge? Studying at Cambridge provides a greater variety of modules to study in your later years of the course, which is ideal for those looking to further explore the world of Engineering. However, Oxford may be the better choice for those looking to spend more of their study time

on specific topics.

How hard is it to get into Oxford engineering? The acceptance rate for Oxford's Engineering course is 16%. However, it's important to bear in mind that this number is inflated by demanding entry requirements. So, the amount of applicants is limited by capability and the number of students who are successful in receiving an offer remains small.

Is Oxford a good school for engineering? The Department of Engineering Science at Oxford has a top-level quality assessment rating for teaching and a world-class reputation for research.

What is the salary of Oxford engineering Professor? The estimated salary for a Professor is £89,580 per year in the Oxford area. This number represents the median, which is the midpoint of the ranges from our proprietary Total Pay Estimate model and based on salaries collected from our users.

What school has the highest paid professors?

What is the salary of a Professor at Harvard? Create an anonymous post and get feedback on your pay from other professionals. The estimated total pay range for a Professor at Harvard University is \$170K–\$307K per year, which includes base salary and additional pay. The average Professor base salary at Harvard University is \$226K per year.

Is it harder to get into Oxford or Harvard? As of 2023, Harvard's acceptance rate is 4%. Half of the applicants accepted at Harvard have an SAT score between 1480 and 1580. On the other hand, Oxford's acceptance rate of about 17.5% is appealing. However, the Oxford acceptance rate and Harvard acceptance rate for international students happens to be 9%.

What is the hardest degree to get in Oxford? The hardest degree subjects are Aerospace Engineering, Law, Chartered Accountancy, Architecture, Chemistry, Medicine, Pharmacy, Psychology, Statistics, Nursing, Physics, Astrophysics, Biomedical Engineering, Astronomy, and Dentistry.

Is Oxford an Ivy League? Despite its fame and reputation, Oxford University, located in the U.K., is not counted as an Ivy League university. The top eight schools

in the USA are collectively known as the Ivy League. Princeton, Columbia, Dartmouth, Brown, Pennsylvania, Cornell, Harvard, and Yale make up the Ivy League.

What does it take to teach at Oxford? A number of one-year (three-term) diplomas and certificates are available to graduate students. These include the Postgraduate Certificate in Education, which is a teacher training course for graduates that is more commonly referred to as the PGCE.

Can you study Education at Oxford? The MSc Education (Higher Education) at the University of Oxford is aimed at future academic, policy, and practitioner leaders in higher education (HE).

Can you study to be a teacher at Harvard? We offer a signature fellowship — the Harvard Fellowship for Teaching — to qualified candidates. The fellowship package covers 80 percent of tuition and provides for a \$10,000 living stipend. This prestigious fellowship is prioritized for admitted students pursuing the Teaching Licensure Residency model.

How can I be a professor in Oxford University? Associate Professors may apply for the title of full Professor in annual exercises. If the title is conferred, you will also have access to professorial merit pay opportunities. In exceptional cases, the title of full Professor may be awarded on appointment.

Thesis Topics in Engineering Construction Management

Question 1: What are some key research areas in engineering construction management?

Answer:

- Project management techniques and optimization
- Sustainable construction practices and materials
- Risk management and safety in construction
- Construction technology and innovation
- Workforce development and skill enhancement

Question 2: Can you suggest specific thesis topics within these research areas?

Answer:

- **Project Management:** Evaluating the effectiveness of earned value management in controlling construction projects.
- **Sustainability:** Investigating the environmental impact of recycled materials in concrete construction.
- **Risk Management:** Developing a predictive model for identifying and mitigating safety hazards on construction sites.
- **Construction Technology:** Exploring the use of drones for progress monitoring and quality control.
- **Workforce Development:** Enhancing construction workforce productivity through training and upskilling programs.

Question 3: What are the benefits of pursuing a thesis in engineering construction management?

Answer:

- Demonstrates advanced knowledge and research skills.
- Enhances critical thinking, problem-solving, and communication abilities.
- Provides valuable experience for a career in academia, research, or industry.
- Contributes to the body of knowledge in construction management and engineering.

Question 4: What are the steps involved in developing a thesis proposal?

Answer:

- Identifying a research topic
- Conducting literature review
- Formulating a research question

- Developing a methodology
- Obtaining faculty supervision

Question 5: What resources are available to support thesis research in engineering construction management?

Answer:

- University libraries and databases
- Industry partnerships
- Faculty mentors
- Graduate student associations
- Professional organizations such as the American Society of Civil Engineers (ASCE)

Worked Examples in Quantity Surveying Measurement: A Comprehensive Guide [PDF Download]

Introduction

Quantity surveying is a crucial discipline in construction management, involving the calculation of quantities and costs of materials and labor required for a project. Worked examples play a vital role in helping professionals develop a thorough understanding of measurement principles and techniques. This article presents a collection of worked examples that provide a step-by-step approach to quantity surveying measurement.

Question 1: Calculating the Quantity of Brickwork

Question: A brick wall is 10 meters long, 3 meters high, and 0.23 meters thick. Calculate the quantity of bricks required, assuming a mortar joint of 10mm.

Answer:

1. Convert all measurements to millimeters: 10m = 10,000mm, 3m = 3,000mm, and 0.23m = 230mm

2. Calculate the cross-sectional area of the wall: $230\text{mm} \times 3,000\text{mm} = 690,000\text{mm}^2$
3. Calculate the area of a single brick: Assume a brick size of $215\text{mm} \times 102\text{mm} \times 65\text{mm} = 221,150\text{mm}^2$
4. Calculate the number of bricks: $690,000\text{mm}^2 / 221,150\text{mm}^2 = 3.12$ bricks per square meter
5. Multiply by the wall area: $10,000\text{mm} \times 3,000\text{mm} = 30\text{m}^2$
6. Total bricks required: $30\text{m}^2 \times 3.12 \text{ bricks/m}^2 = 93.6$ bricks

Question 2: Determining the Volume of Concrete

Question: A concrete foundation is 5 meters long, 3 meters wide, and 0.5 meters deep. Calculate the volume of concrete required.

Answer:

1. Convert all measurements to meters: $5\text{m} \times 3\text{m} \times 0.5\text{m}$
2. Multiply the dimensions to obtain the volume: $5\text{m} \times 3\text{m} \times 0.5\text{m} = 7.5\text{m}^3$

Question 3: Estimating the Quantity of Reinforcement

Question: Calculate the quantity of reinforcement steel required for a beam with a length of 12 meters, a depth of 300mm, and a width of 200mm. The beam contains 4 top bars of 12mm diameter and 6 bottom bars of 16mm diameter.

Answer:

1. Calculate the length of reinforcement: $12\text{m} \times 4 = 48\text{m}$ (for top bars) and $12\text{m} \times 6 = 72\text{m}$ (for bottom bars)
2. Convert bar diameters to millimeters: $12\text{mm} = 12\text{mm}$ and $16\text{mm} = 16\text{mm}$
3. Calculate the weight per meter: 0.785kg/m (for 12mm bars) and 1.57kg/m (for 16mm bars)
4. Calculate the total weight: $48\text{m} \times 0.785\text{kg/m} = 37.84\text{kg}$ (for top bars) and $72\text{m} \times 1.57\text{kg/m} = 112.56\text{kg}$ (for bottom bars)
5. Total weight of reinforcement: $37.84\text{kg} + 112.56\text{kg} = 150.4\text{kg}$

Conclusion

Worked examples are invaluable tools for practicing quantity surveyors and students alike. They provide a practical understanding of measurement principles and help develop proficiency in estimating quantities. The examples presented in this article offer a comprehensive resource for professionals seeking to enhance their skills in this critical area of construction management.

PDF Download

To download a comprehensive PDF version of these worked examples, please visit the following link: [Website or Download Link]

Serge Lang Undergraduate Algebra Solutions: A Comprehensive Guide

Serge Lang's Undergraduate Algebra, renowned for its rigor and depth, has been a cornerstone of algebraic learning for decades. However, students often encounter challenges in grasping the complex concepts presented in the book. This article aims to provide a comprehensive guide to the solutions of Serge Lang's Undergraduate Algebra.

Question 1: Prove that the set of all positive integers is well-ordered.

Solution: A set of positive integers is well-ordered if every nonempty subset has a least element. Assume a nonempty subset S of positive integers exists with no least element. Let T be the set of all positive integers not in S . T is nonempty since S is nonempty. By the Well-Ordering Principle, T has a least element. However, because T consists of positive integers not in S , the least element of T must be smaller than any element in S . This contradicts the assumption that S has no least element.

Question 2: Find the greatest common divisor (GCD) of two polynomials and express it as a linear combination of the polynomials.

Solution: Let $f(x)$ and $g(x)$ be two polynomials. Divide $f(x)$ by $g(x)$ using long division. The remainder is the GCD of $f(x)$ and $g(x)$. Let $q(x)$ be the quotient. Then, the GCD can be expressed as:

$$\text{GCD}(f(x), g(x)) = f(x) - q(x) * g(x)$$

Question 3: Prove that every finite group of order n has an element of order n .

Solution: Consider a finite group G of order n . Let $G = \{g_1, g_2, \dots, g_n\}$. Define the function $f: G \rightarrow G$ by $f(g_i) = g_{i+1}$. Since G is finite, f is a permutation of G . Thus, there exists an integer k such that $f^k(g_1) = g_1$. This implies that $g_k = g_1$, and therefore, the order of g is n .

Question 4: Find the number of subgroups of order 8 in a group of order 32.

Solution: By Lagrange's Theorem, the order of any subgroup must divide the order of the group. Thus, the only possible orders of subgroups in a group of order 32 are 1, 2, 4, 8, 16, and 32. The number of subgroups of order 1 and 32 is trivially 1. The number of subgroups of order 16 is the same as the number of subgroups of order 2. Using the formula for the number of subgroups of order 2, we get:

$$\text{Number of subgroups of order 2} = (32 / 2) - 1 = 15$$

Similarly, the number of subgroups of order 4 is given by:

$$\text{Number of subgroups of order 4} = (32 / 4) - 1 - (15 / 2) = 7$$

Therefore, the number of subgroups of order 8 is:

$$\text{Number of subgroups of order 8} = (32 / 8) - 1 - (15 / 2) - (7 / 2) = 3$$

Question 5: Find the Galois group of the polynomial $x^3 - 2$.

Solution: The splitting field of the polynomial $x^3 - 2$ is $\mathbb{Q}(\sqrt[3]{2})$, which is a cubic extension of \mathbb{Q} . Therefore, the Galois group of $x^3 - 2$ is isomorphic to S_3 , the symmetric group on 3 elements. It consists of three elements: the identity, a cyclic permutation of order 3, and a 2-cycle.

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