

TALLER 5 ANUALIDADES VENCIDAS

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Taller 5: Anualidades Vencidas

Introduction

An annuity is a series of equal payments made at regular intervals over a specified period. An annuity due is a special type of annuity where payments are made at the beginning of each period. In this taller, we will discuss the concept of anualidades vencidas (annuities due).

Questions and Answers

1. What is the difference between an annuity and an annuity due? An annuity is a series of payments made at the end of each period, while an annuity due is a series of payments made at the beginning of each period.

2. How do you calculate the present value of an annuity due? The present value of an annuity due is calculated by multiplying the payment amount by the annuity due factor. The annuity due factor is a mathematical formula that takes into account the time value of money and the frequency of payments.

3. How do you calculate the future value of an annuity due? The future value of an annuity due is calculated by multiplying the payment amount by the future value of an annuity due factor. The future value of an annuity due factor is a mathematical formula that takes into account the interest rate and the number of periods.

4. What is the difference between an ordinary annuity and an annuity due? An ordinary annuity is a series of payments made at the end of each period, while an

annuity due is a series of payments made at the beginning of each period. The main difference between the two is that the future value of an annuity due is greater than the future value of an ordinary annuity for the same number of periods and the same interest rate.

5. How do you calculate the payment amount for an annuity due? The payment amount for an annuity due is calculated by dividing the present value of the annuity by the annuity due factor. The annuity due factor is a mathematical formula that takes into account the time value of money and the frequency of payments.

Conclusion

Anualidades vencidas (annuities due) are a type of annuity where payments are made at the beginning of each period. They are different from ordinary annuities, which have payments made at the end of each period. The present value and future value of an annuity due are calculated using special factors that take into account the timing of payments.

Solved with COMSOL Multiphysics 4.3a: Heat Generation in a Circular Rod

Question: How can we computationally solve for the temperature distribution in a circular rod with internal heat generation using COMSOL Multiphysics 4.3a?

Answer:

COMSOL Multiphysics provides a comprehensive suite of tools for modeling and solving complex heat transfer problems. In this case, we can use the Heat Transfer in Solids module to analyze heat generation within a circular rod. The model involves solving the governing heat diffusion equation with an internal heat source term.

Model Setup:

To set up the model, we define a circular domain representing the rod and apply an appropriate boundary condition at the edge (e.g., fixed temperature). The heat generation rate is specified as a volumetric heat source within the rod. The material properties are defined, including thermal conductivity and specific heat capacity.

Solution Procedure:

Using COMSOL's finite element method, we solve the heat transfer equations for the temperature distribution. The solver takes into account the boundary condition and the internal heat generation, yielding a temperature profile that describes the spatial distribution of heat within the rod.

Results:

The simulation results provide detailed information about the temperature field, including temperature variation along the rod's length and radial direction. The peak temperature, temperature gradients, and heat flux can be analyzed.

Applications:

This model is applicable to various engineering and scientific disciplines where heat generation and temperature distribution are of interest. It can be used to optimize cooling systems, predict thermal performance, and design temperature-sensitive components in applications such as electronics, power generation, and manufacturing processes.

Writing Poems with Boisseau's Method

What is Boisseau's method?

Boisseau's method is a poetic structure that consists of five stanzas, each with a specific number of lines and a rhyme scheme. The first stanza has two lines, the second stanza has three lines, the third stanza has four lines, the fourth stanza has three lines, and the fifth stanza has two lines. The rhyme scheme is ABCB in the first stanza, BCBA in the second stanza, CDCDE in the third stanza, FEF in the fourth stanza, and GG in the fifth stanza.

How do I use Boisseau's method to write a poem?

To use Boisseau's method to write a poem, you can follow these steps:

1. Choose a topic and brainstorm ideas.
2. Write a two-line first stanza with an ABCB rhyme scheme.
3. Write a three-line second stanza with a BCBA rhyme scheme.
4. Write a four-line third stanza with a CDCDE rhyme scheme.

5. Write a three-line fourth stanza with a FEF rhyme scheme.
6. Write a two-line fifth stanza with a GG rhyme scheme.

What are some examples of poems written using Boisseau's method?

Here are some examples of poems written using Boisseau's method:

- "Ode to a Nightingale" by John Keats
- "The Raven" by Edgar Allan Poe
- "Stopping by Woods on a Snowy Evening" by Robert Frost
- "Do Not Go Gentle into That Good Night" by Dylan Thomas
- "Sonnet 18" by William Shakespeare

What are the benefits of using Boisseau's method to write poems?

There are several benefits to using Boisseau's method to write poems, including:

- It can help you to structure your thoughts and ideas.
- It can help you to create a sense of rhythm and flow in your poems.
- It can help you to develop your creativity and imagination.

How can I learn more about Boisseau's method?

There are several resources available online that can help you to learn more about Boisseau's method, including:

- The Poetry Foundation: <https://www.poetryfoundation.org/resources/literary-forms-and-terms/types-of-poetry/boisseau>
- The Academy of American Poets: <https://poets.org/glossary/boisseau>
- The Poetry Archive: <https://poetryarchive.org/glossary/boisseau>

Wiley Engineering Fluid Mechanics: 10th Edition by Donald T. Hattersley

Question 1: What is the key difference between the 10th and previous editions of "Engineering Fluid Mechanics"?

Answer: The 10th edition features a significantly revised and expanded chapter on computational fluid dynamics (CFD), reflecting the growing importance of this field in engineering practice.

Question 2: What are some of the new features introduced in the 10th edition?

Answer: New features include over 100 new problems, more than 300 new illustrations, and a wider range of examples. The text also includes an enhanced online resource with interactive simulations, videos, and additional problem-solving tools.

Question 3: What are the strengths of "Engineering Fluid Mechanics" by Donald T. Hattersley?

Answer: The book is known for its clear and concise explanations, comprehensive coverage of fluid mechanics topics, and numerous solved examples and practice problems. It also provides a solid foundation for further study in advanced fluid mechanics.

Question 4: How is "Engineering Fluid Mechanics" used in engineering education?

Answer: The book is widely used as a textbook for undergraduate and graduate fluid mechanics courses in civil, mechanical, aerospace, and chemical engineering. It is also a valuable resource for practicing engineers who need to refresh their knowledge of fluid mechanics.

Question 5: What are some of the key concepts covered in "Engineering Fluid Mechanics"?

Answer: The book covers a wide range of topics in fluid mechanics, including fluid properties, fluid statics, fluid dynamics, potential flow, viscous flow, pipe flow, flow measurements, and turbomachinery.

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