Unit 5 - Week 3: Artifial Bluntations and Pulsatile Flow

Assignment 3

Week 5: Pulsatile Flow

Week 3: Characteristic Numbers and Pulsatile Flow

Grade: 8.00

Due Date: 2023-09-14, 11:59 AM

Instructions:

- Pulsatile flow occurs when the fluid is not flowing steadily.
  - Define pulsatile flow.
  - List the characteristic numbers associated with pulsatile flow.
  - Explain the importance of these numbers in pulsatile flow.

- Discuss the reasons why pulsatile flow is important in medical applications.
  - Provide examples of medical applications where pulsatile flow is utilized.

- Discuss the challenges associated with pulsatile flow in medical devices.
  - Describe the potential effects of pulsatile flow on the patient.

- Describe the methods used to measure and control pulsatile flow.
  - Explain the advantages and disadvantages of each method.

- Discuss the future prospects of pulsatile flow in medical applications.
  - Predict the potential advancements in pulsatile flow technology.

Grade Instructions:

- Provide clear and concise definitions and explanations.
- Use appropriate terminology and concepts.
- Include specific examples to illustrate your points.
- Ensure all parts of the assignment are addressed.

Credit: 100%