

Problem Chosen

A

**2025
MCM/ICM
Summary Sheet**

Team Control Number

2504496

Enjoy a Cozy and Green Bath

Summary

abstract...

Keywords: Keyword one, Keyword two, Keyword three

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1 Introduction

1.1 Background

1.2 Restatement and Analysis of the Problem

1.3 Overview of Our Work

- 111. ...

- 222. ...

1) ...

2) ...

3) ...

4) ...

2 Assumptions and Justification

To simplify the problem and make it convenient for us to simulate real-life conditions, we make the following basic assumptions, each of which is properly justified.

- 111. ...

- 222. ...

3 List of Notations

Symbols	Description	Unit
h	Convection heat transfer coefficient	$\text{W}/(\text{m}^2 \cdot \text{K})$
A	Aera	m^2
a, b, c	The size of a bathtub	m^3

where we define the main parameters while specific value of those parameters will be given later.

4 Data Pre-processing

4.1 Outlier Handling

4.2 Missing Value Handling

4.3 Tag Encoding of String Type Data

5 Task 1: xxx

6 Task 2: xxx

7 Task 3: xxx

8 Task 4: xxx

9 Sensitivity Analysis

10 Strength and Weakness

10.1 Strength

10.2 Weakness

11 Further Discussion

Memo

Enjoy Your Bath Time!

Sincerely yours,

Your friends

Reference

Appendices

Appendix A First appendix

Appendix B Second appendix

Report on Use of AI

1. OpenAI ChatGPT (Nov 5, 2023 version, ChatGPT-4,)

Query1: <insert the exact wording you input into the AI tool>

Output: <insert the complete output from the AI tool>

2. OpenAI ChatGPT (Nov 5, 2023 version, ChatGPT-4,)

Query1: <insert the exact wording you input into the AI tool>

Output: <insert the complete output from the AI tool>