

A highly not interesting title not here: the title should represent the main task of this work. E.g. Conception of a local zero emission ferry

*here the actual output of the this thesis could be stated, e.g. Methodology for Ship Design based on the Gehlsdorf - andere Seite - route*

|                  |   |
|------------------|---|
| Name:            | Max Mustermann  |
| Student ID:      | 219903992   |
| Subject:         | Advanced Design of Ships and Offshore Structures        |
| E-Mail:          | name.name@uni-rostock.de                                |
| Supervisors:     | Prof. Dr.-Ing. Florian Sprenger<br>M.Sc. ABC            |
| Chair:           | Ship Design   |
| Faculty:         | Faculty of mechanical engineering and marine technology |
| Thesis schedule: | 20 weeks  |
| Submission:      | 01.01.1001  |

Copyright © 2023, Max Mustermann  
All rights reserved, text, pictures and graphics are protected material.

Max Mustermann  
name.name@uni-rostock.de

This document was set with L<sup>A</sup>T<sub>E</sub>X on November 30, 2023.

# Abstract

Here is the abstract...

# Contents

|   |           |
|---|-----------|
| <b>Lists</b>  | <b>ii</b> |
| List of Abbreviations . . . . .                                       | v         |
| List of Formulas . . . . .  | vi        |
| <b>1. Examples</b>  | <b>1</b>  |
| 1.1. ...for lists . . . . .   | 1         |
| 1.2. ...for a table . . . . .   | 1         |
| 1.3. ...for equations . . . . .                                       | 1         |
| 1.4. ...for figures . . . . .   | 2         |
| 1.5. ...for plots . . . . .   | 3         |
| 1.6. ...for referencing and citing . . . . .                          | 5         |
| 1.7. ...for writing code in L <sup>A</sup> T <sub>E</sub> X . . . . . | 5         |
| <b>2. Off you go!</b>   | <b>6</b>  |
| <b>3. Introduction</b>  | <b>7</b>  |
| <b>Bibliography</b>   | <b>8</b>  |
| <b>A. First chapter</b>   | <b>9</b>  |

# List of Figures

|  |   |
|--|---|
| 1.1. Bulbuos bow parameter . . . . .                               | 2 |
| 1.2. CFD result . . . . .  | 2 |
| 1.3. Wave resistance over froude number according to [3] . . . . . | 3 |
| 1.4. Plotting a mathematical function directly in latex . . . . .  | 3 |
| 1.5. Plot from .csv file . . . . .                                 | 4 |

# List of Tables

1.1. *Alianca Bahia's* ship data . . . . . 1

# List of Abbreviations

| Abbreviation | Meaning                      |
|--------------|------------------------------|
| <b>CAD</b>   | Computer Aided Design        |
| <b>CFD</b>   | Computational Fluid Dynamics |
| <b>FOB</b>   | Flat-of-Bottom               |
| <b>FOS</b>   | Flat-of-Side                 |
| <b>RoRo</b>  | Roll on Roll off             |

# List of Formulas

| Symbol   | Unit       | Meaning    |
|----------|------------|------------|
| $\alpha$ | $^{\circ}$ | Angle      |
| $x$      | $mm$       | Coordinate |



# 1. Examples

## 1.1. ...for lists

**bullet list**

- Frictional resistance  $R_F$
- viskous resistance  $R_{VD}$
- Wave resistance  $R_W$

**numerated list**

1. Frictional resistance  $R_F$
2. Viskous resistance  $R_{VD}$
3. Wave resistance  $R_W$

## 1.2. ...for a table

Table 1.1.: *Alianca Bahia's* ship data

|          |                               |                 |
|----------|-------------------------------|-----------------|
| $L_{oa}$ | length over all               | 201,04 <i>m</i> |
| $L_{pp}$ | length between perpendiculars | 189,60 <i>m</i> |
| $B$      | breadth                       | 29,80 <i>m</i>  |
| $D$      | side height                   | 16,50 <i>m</i>  |
| $T_d$    | design draught                | 10,10 <i>m</i>  |

## 1.3. ...for equations

**single line**

$$\Delta = \rho \cdot \nabla \tag{1.1}$$

**multi line**

$$g \cdot \Delta = g \cdot \rho \cdot \nabla \tag{1.2}$$

$$G = B \tag{1.3}$$

## 1. Examples

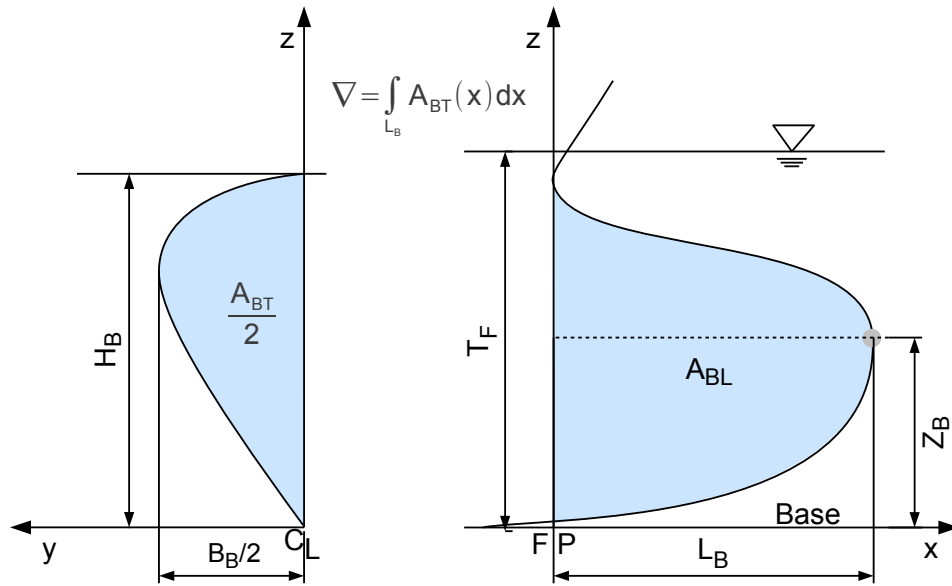


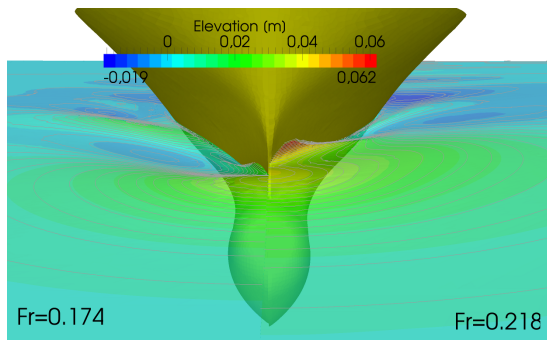
Figure 1.1.: Bulbuos bow parameters, figure as in [1]

## 1.4. ...for figures

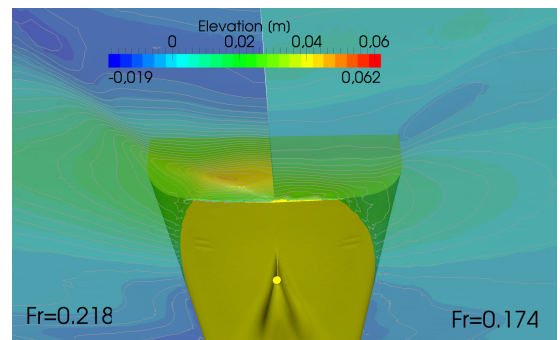
### single picture

In equation (1.3)

### Multiple pictures



(a) Bow view



(b) Stern view

Figure 1.2.: CFD-result of a 14000 *TEU* container ship

## 1.5. ...for plots

plotting with direct coordinates

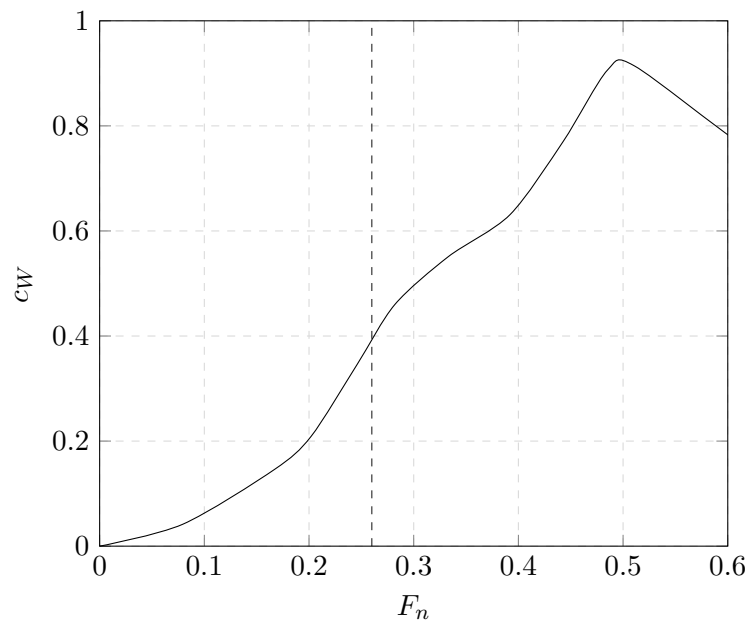


Figure 1.3.: Wave resistance over froude number according to [3]

plotting a mathematical function

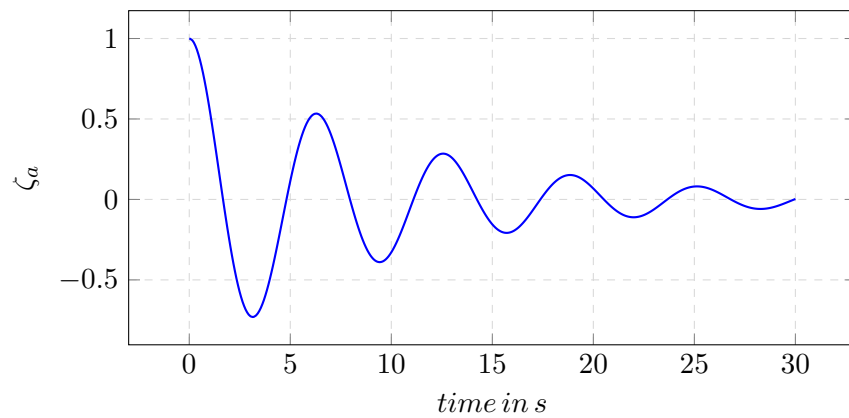


Figure 1.4.: Plotting a mathematical function directly in latex

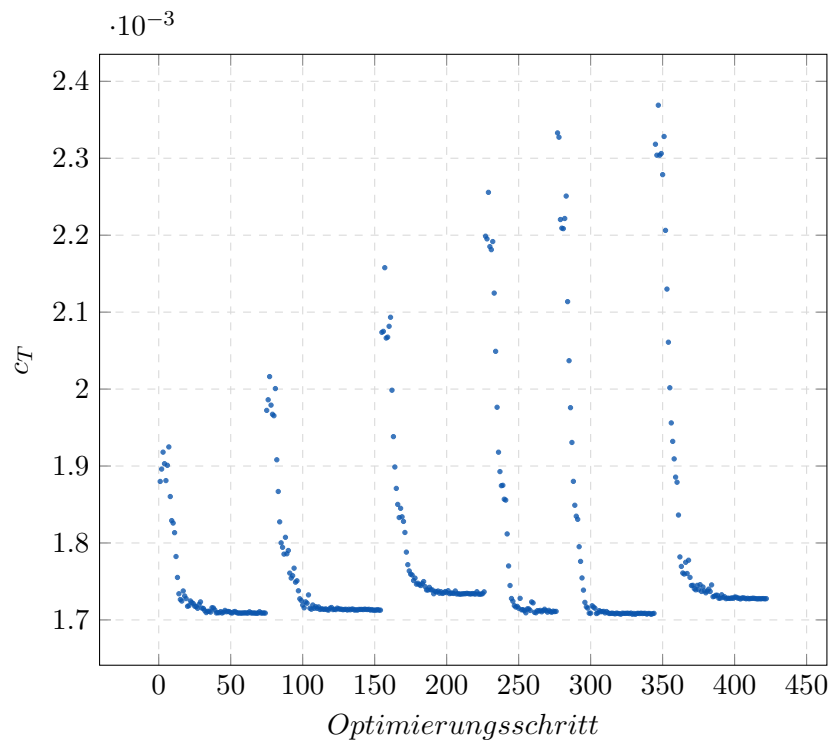
**plotting .csv table data**

Figure 1.5.: Plotting a graph from a table brings the advantage, that with chaged data, only the new file has to be exported and after the next compilation, every figure is up to date.

## 1.6. ...for referencing and citing

### referencing

e.g.:

Refer section 1.1

In table 1.1...

Equation 1.1 and 1.3....

Die Grafik 1.2a in Abbildung 1.2....

### citing literature

In [2] fundamental basics of naval architecture can be found.

Figure 1.1 shows a slightly modified picture as found in [1].

## 1.7. ...for writing code in $\text{\LaTeX}$

Listing 1.1: A simple code example

---

```
1 for (int i=0; i<5;i++)  
2 {  
3     do something;  
4 }
```

---

## 2. Off you go!

Now after some examples, it's up to you to fill these pages with life.

### 3. Introduction

Here is the intro...

Try to write something to refer to in the conclusion (was it succesful or not).

# Bibliography

- [1] A. KRACHT: *Design of Bulbous Bows*. The Society of Naval Architects and Marine Engineers (SNAME) Transactions, Vol. 86, 1978
- [2] C. MAYER, R. MARQUARDT: *Schiffstechnik und Schiffbautechnologie*. Seehafen Verlag, 2006
- [3] JENSEN, G. : Moderne Schiffslinien. In: *Handbuch der Werften* 22 (1994), S. 93
- [4] WATSON, D. G.: *Practical ship design*. Bd. 1. Elsevier, 1998



## **A. First chapter**

In the appendix you can put code lines, big raw data tables etc...

# Declaration of authorship

I declare in an official manner by handwritten signature that I have written this thesis independently and without the use of any other resources than those indicated. All passages taken literally or in substance from other publications have been indicated. This also applies to drawings, sketches, illustrations and sources from the Internet.

I further declare that I have not submitted or will not submit the present work in any other examination procedure. (The submitted written version is identical to the electronically submitted version). I understand that if I submit an incorrect assurance, the thesis has to be considered as failed.

Rostock, November 30, 2023

---

Max Mustermann

