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| 한국해양공학회지  www.JOET.org | **Journal of Ocean Engineering and Technology** 00(0), 000-000, December, 2100  <https://doi.org/10.26748/KSOE.2100.000> | pISSN 1225-0767  eISSN 2287-6715 |
| [Original Research Article, Technical Article, Review Article, etc]  Title of Article  Firstname LastnameEMB0000443432541, Firstname LastnameEMB0000443432542 and Firstname LastnameEMB0000443432543  1*Professor, Department of OO, OO School, OO University, Busan, Korea* 2*Graduate Student, Deepartment of OO, OO University, Seoul, Korea*  3*Senior Researcher, Department of OO, OO Engineering. Corp., Seoul, Korea*  **KEY WORDS:** Lumped mass line model, Explicit method, Steel lazy wave riser (Immediately after the abstract, provide a maximum of 5 or 6 keywords*.)*  **ABSTRACT:** *A concise and factual abstract is required. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract should be written in around 300 words and is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.* | | |

Nomenclature

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| *ITOC*  *LHV*  *Pw*  *T*  *V*  DRW000044343287 | Increment of total operating cost [$/yr]  Lower heating value [kJ/kg]  Power [kW]  Temperature [K]  Volume [m3]  Density [kg/m3] |

1. Introduction

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| Received 00 February 2100, revised 00 October 2100, accepted 00 October 2100  Corresponding author Firstname Lastname: +82-51-759-0656, e-mail@e-mail.com, http://orcid.org/0000-0000-000-000  It is a recommended paper from the proceedings of 2019 spring symposium of the Korea Marine Robot Technology (KMRTS). |
| ⓒ 2100, The Korean Society of Ocean Engineers  This is an open access article distributed under the terms of the creative commons attribution non-commercial license (http://creativecommons.org/licenses/by-nc/4.0) which permits unrestricted non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited. |

The introduction should briefly place the study in a broad context and highlight why it is important. It should define the purpose of the work and its significance. The current state of the research field should be reviewed carefully and key publications cited. Please highlight controversial and diverging hypotheses when necessary. Finally, briefly mention the main aim of the work and highlight the principal conclusions. As far as possible, please keep the introduction comprehensible to scientists outside your particular field of research.

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Authorship should be limited to those who have made a significant contribution to the conception, design, execution, or interpretation of the reported study. All those who have made significant contributions should be listed as co-authors. Where there are others who have participated in certain substantive aspects of the research project, they should be acknowledged or listed as contributors.

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Manuscript must consist of as follow : (1) Title, (2) Author’s information (include title), (3) Key word, (4) Abstract, (5) Nomenclature description, (6) Introduction, (7) Body (analysis, test, results and discussion, (8) Conclusion, (9) Acknowledgements, (10) Reference, (11) Appendix, etc.

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Use the international system units(SI). If other units are mentioned, please give their equivalent in SI.

3.2 Equations

All mathematical equations should be clearly printed/typed using well accepted explanation. Superscripts and subscripts should be typed clearly above or below the base line. Equation numbers should be given in Arabic numerals enclosed in parentheses on the right-hand margin. They should be cited in the text as, for example, Eq. (1), or Eqs. (1)-(3).

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|  | (1) |

in which , , and represent the location (“Shift” in figures), scale, and shape parameters, respectively.

3.3 Tables

Tables should be numbered consecutively with Arabic numerals. Each table should be typed on a separate sheet of paper and be fully titled. All tables should be referred to in the text.

**Table 1** Tables should be placed in the main text near to the first time they are cited.

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| Item | Buoyancy riser |
| Segment length1 (m) | 370 |
| Outer diameter (m) | 1.137 |
| Inner diameter (m) | 0.406 |
| Dry weight (kg/m) | 697 |
| Bending rigidity (N·m2) | 1.66E8 |
| Axial stiffness (N) | 7.098E9 |
| Inner flow density (kg·m3) | 881 |
| Seabed stiffness (N/m/m2) | 6,000 |

1Tables may have a footer.

3.4 Figures

All the illustrations should be of high quality meeting with the publishing requirement with legible symbols and legends. In preparing the illustrations, authors should consider a size reduction during the printing process to have acceptable line clarity and character sizes. All figures should have captions which should be supplied on a separate sheet. They should be referred to in the text as, for example, Fig. 1, or Figs. 1-3.

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| EMB00004434327a  (a) Description of what is contained in the first panel | EMB00004434327a  (b) Description of what is contained in the first panel |

**Fig. 1** Schemes follow the same formatting. If there are multiple panels, they should be listed as: (a) Description of what is contained in the first panel; (b) Description of what is contained in the second panel. Figures should be placed in the main text near to the first time they are cited.

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All references should be listed at the end of the manuscripts, arranged in order of Alphabet. The exemplary form of listed references is as follows:

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Two or more papers: (Lee, 1995a; Lee, 1995b; Ryu et al., 1998)

Year unknown: (Kim, n.d.) or Kim (n.d.)

4. Conclusions

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Acknowledgments

Please add: “This research was funded by Name of Funder, grant number XXX” and “The OOO was funded by XXX”. Check carefully that the details given are accurate and use the standard spelling of funding agency names at https://search.crossref.org/funding

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Lee, T.K., Kim, T.W., Rim, C.W., & Kim, S.C. (2013). A Study on Calculation of Local Ice Pressures for ARAON Based on Data Measured at Arctic Sea. Journal of Ocean Engineering and Technology, 27(5), 88-92. https://doi.org/10.5574/KSOE.2013.27.5.088

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Author, A.A., Author, B.B., & Author, C.C. (Year). Title of Article. Proceeding Title, City, Country, pp-pp. https://doi.org/xx.xxxx

Aoki, S., Liu, H., & Sawaragi, T. (1994).　Wave Transformation and Wave Forces on Submerged Vertical Membrane. Proceedings of International Symposium Waves - Physical and Numerical Modeling, Vancouver, Canada, 1287-1296.

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Referring to books:

Author, A.A. (Year). Title of Book (xx ed.). Location: Publisher.

Strunk, W., & White, E.B. (2000). The Elements of Style (4th ed.). NewYork, USA: Longman.

Schlichting, H. (1968). Boundary Layer Theory (6th ed.). New York, USA: McGraw-Hill.

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Author, A.A. (Year). Title of Doctoral Dissertation or Master’s thesis (Doctoral Dissertation or Master’s thesis). Name of Institution, City, Country.

Giovanni, I. (1998). Modelling and Identification of Underwater Robotic Systems (Ph.D. Thesis). University of Genova, Genova, Italy.

Referring to technical reports, rules, or guidelines:

Author, A.A. (Year). Title of report (Reprot No. xxx), Location: Publisher.

Likhomanov, V. (2010). Full-Scale Ice Trials of the Korean Research Icebreaker ARAON. Daejeon, Korea: Arctic and Antarctic Research Institute (AARI).

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Referring to patents:

Righsholder, A.A. (Year). Title of Patent. Patent number, Patent office with country.

Dawoo Shipbulding & Maringe Engineering (DSME). (2013). Distance Length Standardization Method for Preventing Interference at the time of Uploading Cell Guide of Container Ship. Unexamined Patent Publication 1020130044635, Korean Interllectual Property Office.

Referring to websites:

Righsholder, A.A. (Year). Title of webpage. Retrieved Month Year from http://xxxx

International Association of Classification Societies (IACS). (2010a). Common Structural Rules for Bulk Carriers. Retrieved July 2010 from http://www.iacs-data.org.uk

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- when authors are missing, institution can replace authors

National Oceanic and Atmospheric Administration (NOAA). (2015). Deep-ocean Assessment and Reporting of Tsunamis (DART). Retrieved December 2019 from <https://nctr.pmel.noaa.gov/Dart/>

- when dates or years are missing, it is replaced with "n.d."

National Oceanic and Atmospheric Administration (NOAA). (n.d.). Deep-ocean Assessment and Reporting of Tsunamis (DART).

- when more then seven authors, first 6 authors ... last author.

Yeu, T., Choi, H.T., Lee, Y., Chae, J., Lee, Y., Kim, S.S., ... Lee, T.H. (2019). Development of Robot Platform for Autonomous Underwater Intervention. Journal of Ocean Engineering and Technology, 33(2), 168-177. https://doi.org/10.26748/KSOE.2019.021

Appendix

The appendix is an optional section that can contain details and data supplemental to the main text. For example, explanations of experimental details that would disrupt the flow of the main text, but nonetheless remain crucial to understanding and reproducing the research shown; figures of replicates for experiments of which representative data is shown in the main text can be added here if brief, or as Supplementary data. Mathematical proofs of results not central to the paper can be added as an appendix.

All appendix sections must be cited in the main text. In the appendixes, Figures, Tables, etc. should be labeled starting with ‘A’, e.g., Fig. A1, Fig. A2, etc.

Examples:

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Author ORCIDs and Contributions

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| Author name | ORCID | Contributions |
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| Park, Hye-Il | 0000-0000-000-00X | ④ |
| Yoo, All | 0000-0000-000-00X | ⑤ |
| Jung, Jewerly | 0000-0000-000-00X | ⑥ |

|  |  |
| --- | --- |
| ① | Conceived of the presented idea or developed the theory |
| ② | Carried out the experiment or collected the data |
| ③ | Performed the analytic calculations or numerical simulations |
| ④ | Wrote the manuscript |
| ⑤ | Supervised the findings of this study |
| ⑥ | Other minor supports |