Best Lemon Hotel: a Boat for The Regal

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***Abstract*—In this report we**

***Index Terms*—IEEEtran, journal, LaTeX, paper, template.**

I. Introduction

BOATS boats. Boats boats. I wish you the best of success.

lolboats
February 24, 2016

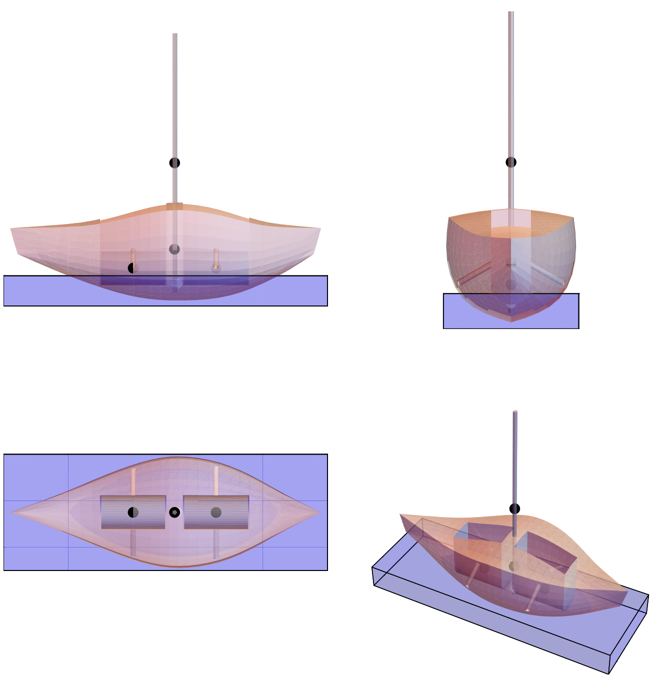


Fig. 1. Various views of the final boat design

A. Design Considerations

1) The boat floats.
2) The boat floats flat.
3) The boat has an angle of vanishing stability (AVS) of 120° to 140°.
4) The boat accelerates quickly.
5) The boat is fast.
6) The boat is nice and sweet and sexy, alright.

In our design process, we identified the first three goals to be mainly computational, and the last two to be mostly qualitative.

1) The Boat Floats: In order for a boat to float above water its mass must be equal to the mass of water it displaces. If the total mass of the boat over the total volume of the boat is less than

$$M = \iiint\limits_D \rho \, dV$$

$$C_{mass} = \frac{\iiint\limits_D (\hat{\mathbf{\imath}} + \hat{\mathbf{\jmath}} + \hat{\mathbf{k}}) \rho_{boat} \, dV}{\iiint\limits_D \rho \, dV}$$

$$C_{buoyancy} = \frac{\iiint\limits_D (\hat{\mathbf{\imath}} + \hat{\mathbf{\jmath}} + \hat{\mathbf{k}}) \rho_{water} \, dV}{\iiint\limits_D \rho \, dV}$$

II. Conclusion

The conclusion goes here.

Appendix A
Proof of the First Zonklar Equation

Appendix one text goes here.

Appendix B

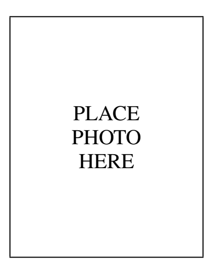
Appendix two text goes here.

Acknowledgment

The authors would like to thank...

References

[1] H. Kopka and P. W. Daly, *A Guide to LaTeX*, 3rd ed. Harlow, England: Addison-Wesley, 1999.



Michael Shell Biography text here.

John Doe Biography text here.

Jane Doe Biography text here.