

**A TREATISE ON THE  
CONSTRUCTION, RIGGING  
& HANDLING OF MODEL  
YACHTS, SHIPS & STEAMERS**

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A Treatise on the Construction, Rigging & Handling of Model Yachts, Ships & Steamers by  
Tyrrel E. Biddle

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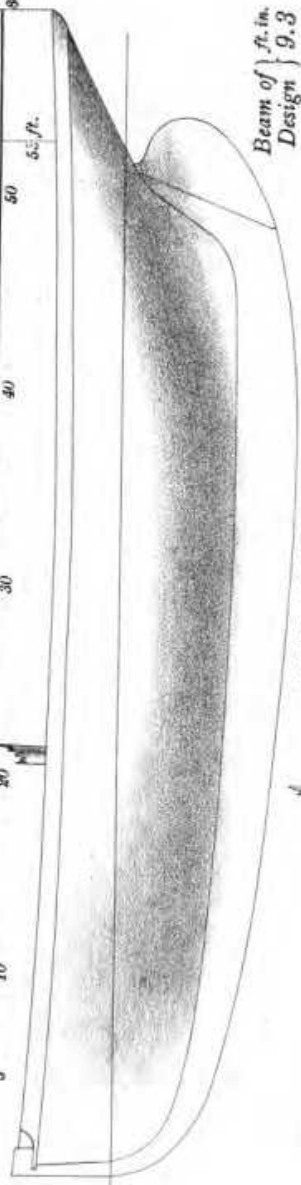
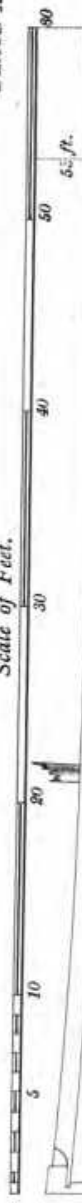
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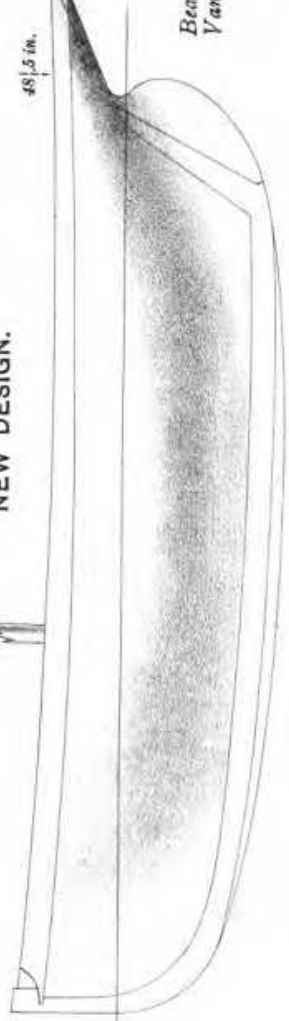
Scale of Feet.



Beam of } ft. in.  
Design } 9.3

NEW DESIGN.

48.5 in. 54.7 in.



Beam of } ft. in.  
Vanessa } 9.10½

VANESSA.

A TREATISE  
ON THE  
CONSTRUCTION, RIGGING & HANDLING  
OF  
MODEL YACHTS, SHIPS & STEAMERS,  
WITH REMARKS ON  
CRUISING & RACING YACHTS,  
AND THE  
MANAGEMENT OF OPEN BOATS;  
ALSO  
LINES FOR A RACING CUTTER SUITABLE FOR A  
5 TO 20 TONNER.  
By TYRREL E. BIDDLE.



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1879.

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" And first with nicest skill and art,  
Perfect and finished in every part  
A little model the Master wrought,  
Which should be to the larger plan,  
What the child is to the man."

LONGFELLOW.

## P R E F A C E .

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AUTHORS, as a general rule, preface their work with an apology for its appearance in the form of a book. In the present instance, however, I do not think an apology is needed, because those who take an interest in Model Yachting, have greatly complained of the want of some Treatise such as that which I have ventured to submit to their notice.

My acknowledgements are due to Captain Biddle, of the Royal Harwich Yacht Club, for many hints and suggestions; also to Robert Greaves, Esq. for the ideas respecting the rig of the Jackass Barque, described in Chapter XI.

LONDON,

*Christmas,*

1878.

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## KEY TO PLATES.

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PLATE 1.—Working Drawing for 2 feet Model Cutter.

PLATE 2.—Ropes, Sails, and Spars of a Cutter, Yawl and Schooner.

PLATE 3.—Showing Rigging of Model Cutter. Fig. 1.—All Sail Set.  
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PLATE 4.—Fig. 1.—A Model Paddle Steamer, for either Clock-work or  
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PLATE 5.—Shows the Rigging of a Brig and Jackass Barque. The Sections,  
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PLATE 6.—Is the Design for a Racing Cutter.

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PLATE 8.—Shows the Running Rigging of a Ship.

PLATE 9.—The Square Sails of a Ship.

PLATE 10. (Frontispiece).—Comparison of the Design on Plate 6 with  
*Vanessa*.

The Explanation of Plates 7, 8, and 9 will be found at the end of the book.

"No ship that roams the ocean wide,  
No bark that stems the rushing tide,  
The daring Cutter can outvie;  
When storms and adverse winds prevail,  
Still closer draws her vent'rous sail,  
In the wind's eye."—OLD SONG.

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#### ERRATA.

In page 6, line 28, for *accurately* read *accurate*.

Page 37.—A dotted line in the cut of the sliding gunter, showing where the sprit goes, has been left out in the engraving. The sprit should extend from the lower part of the topmast to a little more than half-way up the after leach of the sail.

Page 55 line 10, instead of *topsail* read *topside*.