

Fig. 39. Ship topsides and superstructure designed for low radar detectability.

off all three surfaces returns it exactly parallel to its arrival direction, producing a large cross section over a wide range of directions.)

Superstructures for yachts reflect styling as well as function, and often consist of elaborately sculptured surface elements, often with far more complex geometry than the hulls. Location and shapes of windows is an important styling aspect of superstructure design. For exterior rendered views it is effective to model a window as a black or dark blue surface element.

12.4 Hull Appendages. The most common hull appendages for ships are bow bulbs, stern tube bossings, sonar domes, bilge keels, and rudders. Though in each case there is a possibility of integrating the appendage with the hull surface (and admitting there are going to be borderline cases where it is difficult to decide whether to add on or to integrate), it is often far more convenient to leave the main hull surface alone and retrofit it by attaching the appendage as a separate surface.

For example, Fig. 40(a) shows a B-spline surface for the forebody of a destroyer, using a 5 × 5 net of control points. In Fig. 40(b), five rows and five columns of additional control points have been inserted in order to provide enough control points in the forefoot area to form an integrated sonar dome; the dome is shown in Fig. 40(c). However, there are now some 30 superfluous control points in the bottom and stem regions, and it will be very difficult to position them all in such a way as to obtain anything like the fairness of the original simple surface in these areas. Figure 41 shows the alternative of treating the sonar dome as the appendage that it is. Outside a well-defined line on the hull (a snake), the hull surface is unaffected by the presence of the dome. The dome designer is then free to focus on the shape of the

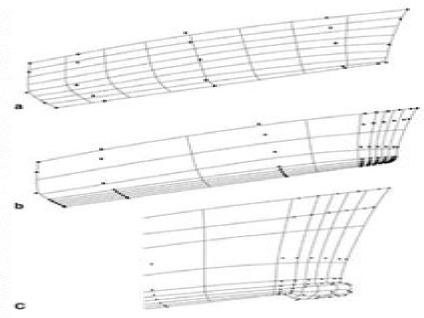


Fig. 40 - Sonar dome at the forefoot of a hulf, formed as an integral part of the B-spline hulf surface by addition of rows and columns of control points.

# **Principles Of Naval Architecture**

**Edward V. Lewis** 

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Practical Principles of Naval Architecture Samuel Supplee Rabl, 1942

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