

Sent: Monday, August 26, 2013 3:32 PM
Subject: Quasi-steady powering trials: feasibility

Dear colleagues, dear friends and fans,

in various of my papers I have mentioned the possibility and efficiency of quasi-steady ship powering trials and monitoring, but until now I did not take the trouble to demonstrate their feasibility and potential.

Please find attached my first steps to make up for so far not attending to this subject of great practical interest. My exercise is based on the data of my quasi-steady 'model' test of 1986, simply ignoring the thrust data and just using elementary mechanics. As results resistance and propulsive efficiency are identified. In full scale applications additional routines, already developed to maturity, have to be utilised as well.

Earlier that set of data, acquired at a test of only two minutes duration, has been used over the years to develop to maturity the complete analysis of the powering performance, including all hull-propeller interactions on model scale and on full scale.

As usual my exercise, related to the 'ITTC Guideline on Trials and Monitoring' to be developed, is to be found under 'News on powering trials' on my website www.m-schmiechen.de , not surprisingly some in German.

With many thanks for your attention
yours, Michael Schmiechen.