A WISE bibliography on ocean waves

Why a WISE bib?

Following the 10-year anniversary of the WAM Book (Komen et al. 1994), a white paper on research on ocean wave forecasting and hindcasting was launched by Luigi Cavaleri as a collaborative effort of the Waves In Shallow Environments group (WISE). In the process, it became clear that the wide array of publications on wave-related topics should be reviewed and old or not-so-old ideas reconsidered. Here is thus an attempt to inventory these publications.

This effort may appear crazy and unnecessary to many, with the advent of specialized search engines. However, these use indices such as the number of citations which may not be able to highlight the really good stuff that nobody has read nor cited. The following good old "manual" bibliography will hopefully be helpful to colleagues that work on wave-related topics. The entries are sorted by topic and then sorted by date of publication. A single entry should be listed under different topics when appropriate.

You can send your own contributions with a bibliography in bibtex format to ardhuin(at)shom.fr. If you know of URLs where papers and reports are openly available on the Internet, please send them so that the papers may be accessible at a single click from this PDF document. The Oceanographical Society of Japan and the American Meteorological Society are commended for their efforts to have all the "old" papers available to the general public at no cost.

How to use the WISE bib ?

Having grown over 2000 papers, with some items (such as bottom reflection and scattering) listing over 100, it seemed that items should be split or more important papers be highlighted. While the former would lead to a larger fragmentation in sub-specialties, the latter introduces a personal judgment and potential for endless rows with colleagues. (Why is my paper less important than this one?). I will take that risk for now, and have thus chosen to **highlight in bold** a few landmark and review papers that may be used as introduction to any sub-field. Suggestions are welcome.

This version was compiled on **December 11, 2006**.

1 General

- Relevant books (1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (21), (22), (23), (24), (25), (26), (27), (28), (29), (30), (31)

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- a. Wave integral properties (energy, momentum, action, spin ...) and variational principles (36), (37), (38), (39), (40), (41), (42), (43), (44), (45), (46), (47), (48), (49), (50), (51), (52), (53), (54), (55), (56), (57), (58), (59)
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- c. Finite amplitude waves (61), (64), (85)
- d. Dispersion relation (86), (63), (87), (88), (89), (90), (91), (92),(93), (94), (95), (96), (97), (98), (99), (100), (101), (102), (103), (104), (105)
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- f. wind-wave generation theories (270), (271), (272), (273), (274), (275), (276), (277), (278), (279), (280), (281), (282), (283), (284), (285), (286), (287), (288), (289), (290), (291), (292), (293), (294), (295), (296), (297), (298), (299), (300), (301), (302), (303), (304), (305), (306), (307), (308), (309), **(310)**, (311), (312), (313), (314), (315), (316), (317), (31)

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