

Preface to Third Edition

Several modifications have been incorporated into the text in the light of recent advances in some aspects of the subject. Further information on the interesting phenomenon of cavitation has been included and a new section on the optimum design of a pump inlet together with a worked example have been added which take into account recently published data on cavitation limitations. The chapter on *three-dimensional flows in axial turbomachines* has been extended; in particular the section concerning the *constant specific mass flow design* of a turbine nozzle has been clarified and now includes the flow equations for a following rotor row. Some minor alterations on the definition of blade shapes were needed so I have taken the opportunity of including a simplified version of the parabolic arc camber line as used for some low camber blading.

Despite careful proof reading a number of errors still managed to elude me in the second edition. I am most grateful to those readers who have detected errors and communicated with me about them.

In order to assist the reader I have (at last) added a list of symbols used in the text.

S.L.D.