CONTENTS

SYMBOLS AND NOTATIONS

The symbols and notations used in the thesis are mostly defined where they appear. Nevertheless, some of the important symbols are defined in this section.

a	Position of the block (distance of left wall of the block from the left wall of the tank)
$\{d\}$	Generalized displacement vector
$L,\ L_L$	Width of rectangular tank
B_{tw}	Interface boundary between tank wall and the fluid
B_{cw}	Interface boundary between component wall and the fluid
B_f	Liquid free surface boundary
B_{tb}	Bottom boundary of the tank
B_{cb}	Bottom boundary of the component
c	Velocity of sound in the fluid medium
C_m	Added mass coefficient
C_l, C_d	Coefficients of lift and drag
$[E]$	Matrix of elastic stiffness
f	Frequency in Hz.
F_s	Force
$\left(F_s\right)_t$	Dynamic force
G	Shear modulus
H_L, d	Depth of the liquid in the tank
H_S	Height of the tanks
g	Acceleration due to gravity.
h	Position of the baffle from free surface, height of the submerged block