NOMENCLATURE

GFRE	Glass Fiber Reinforced Epoxy
M_1	The first method of specimens manufacturing
M_2	The second method of specimens manufacturing
S-N curve	Conventional stress-log life fatigue curve
V_f	Fiber volume fraction
M	Applied bending moment
T	Applied torsional moment
M_m	Mean value of applied bending moment
M_a	Amplitude value of applied bending moment
T_m	Mean value of applied torsional moment
T_a	Amplitude value of applied torsional moment
P	The value of applied pressure
P_{max}	The maximum value of applied pressure
d_i	Inner diameter of the specimen
d_o	Outer diameter of the specimen
I	Second moment of area
J	Second polar second moment of area
ω	Angular velocity
θ	Fiber orientations angle
σ_x	Normal global stress component in (x) direction
σ_y	Normal global stress component in (y) direction
τ_{xy}	Global shear stress component in (x-y) plane
σ_b	Bending stress
σ_h	Hoop stress
σ_l	Longitudinal stress
σ_{max}	The maximum normal global stress component
σ_{min}	The minimum normal global stress component
σ_a	Amplitude normal global stress component
σ_m	Mean normal global stress component
σ_1	Local stress component in the fiber direction

σ_2	Local stress component in the perpendicular direction to the fiber
σ_3	Local shear stress component
S_U	Ultimate global static bending strength
S_{US}	Ultimate global static shear strength
S_H	Ultimate global static hoop strength
S_L	Ultimate global static longitudinal strength
S_f	Bending fatigue strength
F_1	Local strength in the fiber direction
F_2	Local strength in the perpendicular direction to the fiber
F_6	Local shear strength
F_{1t}	Local tension component in directions (1)
F_{1c}	Local compression component in directions (1)
F_{1t}	Local tension component in directions (2)
F_{1c}	Local compression component in directions (2)
N	Nuber of cycles to failure
SWT	The Smith-Watson-Topper parameter
Ψ	The modified fatigue strength ratio
R.D.	Relative damage
G.R.D.	Goodman's relative damage

TABLES OF CONTENTS

LIST OF TABLES

LIST OF FIGURES