TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)

TABLE OF CONTENTS (Continued)

LIST OF TABLES

LIST OF FIGURES

LIST OF FIGURES (Continued)

LIST OF FIGURES (Continued)

LIST OF FIGURES (Continued)

Figure **Page**

LIST OF FIGURES (Continued)

Figure **Page**

LIST OF FIGURES (Continued)

Figure **Page**

LIST OF FIGURES (Continued)

LIST OF FIGURES (Continued)

Figure **Page**

ABBREVIATIONS AND SYMBOLS

English Alphabet

Symbol	Description
$\boldsymbol{X}$	The position vector in reference configuration
R	Radial position in reference configuration
Z	Longitudinal position in reference configuration
$\boldsymbol{x}$	The position vector in deformed configuration
r	Radial position in deformed configuration
z	Longitudinal position in deformed configuration
$\boldsymbol{F}$	The deformation gradient tensor
$\boldsymbol{E}$	The Green-Lagrange strain tensor
$\boldsymbol{C}$	The right Cauchy Green tensor
$\boldsymbol{I}$	Identity tensor
$\boldsymbol{S}$	The second Piola-Kirchhoff stress tensor
$\boldsymbol{G}$	The body force tensor of arterial wall
$\boldsymbol{a}$	Acceleration vector
t	Time
$\boldsymbol{v}$	Velocity vector
p	Luminal pressure
$\boldsymbol{f}$	The body force tensor of blood
H	Thickness of arterial layer

English Alphabet

Symbol	Description
L	Overall longitudinal length in reference configuration
N	Number of experimental data points
u	Velocity component
U_{cl}	The centreline velocity
U_0	Reference bulk inflow velocity
T	Period of cardiac time
MSE	Mean square error
MBP	Mean blood pressure
SBP	Systolic blood pressure
DBP	Diastolic blood pressure
I	Principal invariant
c	Stress-like parameter of isotropic term
k_1	Stress-like parameter of anisotropic term
k_2	Dimensionless parameter of anisotropic term
$\boldsymbol{A}$	Structure tensor of fiber direction
$\boldsymbol{a_0}$	Fiber direction vector
$\boldsymbol{b}$	The left Cauchy Green tensor
P	Lagrange multiplier
r_{par}	The Pearson product moment correlation coefficient from parameter estimation

English Alphabet

Symbol	Description
r_d	The Pearson product moment correlations between dependences of present study and previous studies

Greek Letters

Symbol	Description
Ω_o	The reference configuration
Θ	Angular position in reference configuration
Ω	The deformed configuration
θ	Angular position in deformed configuration
Ψ	The strain energy function
$\boldsymbol{\sigma}$	The Cauchy stress tensor
ρ	Density of arterial wall
μ	Dynamic viscosity of blood
δ	Parameter for fluctuation of pulsatile flow
ζ	Fold value of mean
ξ	Fold value of amplitude
λ	Stretch ratio
Φ	Opening angle
β	Angle of collagen fibers

Subscript

Symbol	Description
vol	Volumetric component
o	Outside
i	Inside
end	Endothelium
int	Intima
iel	Internal elastic lamina
med	Media
adv	Adventitia
j	Arterial layer
v	Equivalent
$mean$	Average value

Superscript

Symbol	Description
$-$	Deviator component
$*$	Normalized value

Other symbols

Symbol	Description
∇	Gradient operator
$\mathbb{A}_0$	The average height above the abscissa

Other symbols

Symbol	Description
$\mathbb{A}_j$	The height of the oscillation in term of cosine
$\mathbb{B}_j$	The height of the oscillation in term of sine