EFFECT OF DOUBLE LAYER STENT TO FLOW PHENOMENA IN CEREBRAL ANEURYSM

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EFFECT OF DOUBLE LAYER STENT TO FLOW PHENOMENA IN CEREBRAL ANEURYSM

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Thesis submitted in fulfilment of the requirements
for the award of the degree of
Bachelor of Mechanical Engineering

Faculty of Mechanical Engineering
UNIVERSITI MALAYSIA PAHANG

NOVEMBER 2009
SUPERVISOR’S DECLARATION

I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Mechanical.

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STUDENT’S DECLARATION

I hereby declare that the work in this project is my own except for quotations and summaries which have been duly acknowledged. The project has not been accepted for any degree and is not concurrently submitted for award of other degree.

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LIST OF SYMBOLS

$u_i$ : velocity in the $i$-th direction

$P$ : pressure

$f_i$ : body force

$\rho$ : density

$\mu_i$ : viscosity

$\delta_{ij}$ : Kronocker delta
LIST OF ABBREVIATIONS

CAD : Computer Aided Design

CAE : Computer Aided Engineering

CFD : Computational Fluid Dynamics

CSS : Computational Solid Stress

LBM : Lattice-Boltzmann Method

POBA : Plain Old Balloon Angioplasty

SAT : Sub-Acute Thrombosis

WSS : Wall shear stress

YME : Young’s Modulus Elasticity