TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF ABBREVIATIONS

TITLE

KLIA	-	Kuala Lumpur International Airport
DYMM SPB	-	Duli Yang Maha Mulia Seri Paduka Baginda
ICC	-	International Code Council
IBC	-	International Building Code
SBC	-	Standard Building Code
UBC	-	Uniform Building Code
BOCA	-	Building Officials and Code Administrators, Inc
NEHRP	-	National Earthquake Hazards Reduction Program
TM	-	Trademark
ADAS	-	Added Damping and Stiffness
CA	-	United State of California
SMRF	-	Special Moment Resisting Frame
FEMA	-	Federal Emergency Management Agency
RCDF	-	Rural Communications and Development Fund
SMA	-	Shape Memory Alloys
RC	-	Reinforced Concrete
SBC	-	Slotted Bolted Connection
PED	-	Passive Energy Dissipation
VE	-	Viscoelastic
SDOF	-	Single-Degree-of Freedom
U.S.	-	United State of America
DBE	-	Design Basis Earthquake
MCE	-	Maximum Considered Earthquake
SEER	-	Engineering Seismology and Earthquake Engineering Research

LIST OF SYMBOLS

TITLE

km^2	-	Kilometre square
m	-	Meter
mm	-	Milimetre
KN	-	Kilo Newton
N/mm^2	-	Newton per millimetre square
KN/mm^2	-	Kilo Newton per millimetre square
g	-	Gravitational ground acceleration
U1	-	Global x-direction
FE	-	Finite Element
2D	-	2 Dimensions
3D	-	3 Dimensions
in	-	Inch
kips	-	Kilo pounds
%	-	Percentage
^oC	-	Celsius degree
°F	-	Fahrenheit Degree
$\ddot{x}$	-	Ground Acceleration
$\dot{x}$	-	Ground Veloctiy
x	-	Ground Displacement
t	-	Time/Period
Hz	-	Hertz
k	-	Linear elastic stiffness

m	-	Mass
c	-	Damping coefficient
Γ	-	Integro-differential operator
u	-	Displacement
±	-	Approximation
δ	-	Inter story drift
b	-	Brace
d	-	Damper
f	-	Shear Force/Friction coefficient
λ_i	-	Structural Dynamics Motion
$\dot{U}$	-	Velocity
N	-	Applied Normal Force
Δt	-	Time Step
fy	-	Strength of Reinforcement
fc'	-	Strength of Concrete
E	-	Modulus Elastic
G	-	Shear Modulus
v	-	Poisson Ratio
α	-	Coefficient of Linear Thermal Expansion
y_e	-	Yield Strength
U_e	-	Tensile Strength
P	-	Axial Force
M	-	Bending Moment
V	-	Shear Force
T	-	Torsion
i.e.	-	Initialism; “in other words”
sgn	-	Signum Function