TABLE OF CONTENTS

CHAPTER NO. **TITLE** **PAGE NO.**

CHAPTER NO. **TITLE** **PAGE NO.**

CHAPTER NO. **TITLE** **PAGE NO.**

CHAPTER NO. **TITLE** **PAGE NO.**

CHAPTER NO. **TITLE** **PAGE NO.**

LIST OF TABLES

LIST OF FIGURES

FIGURE NO. **TITLE** **PAGE NO.**

LIST OF SYMBOLS AND ABBREVIATIONS

Ab	-	Abstractness
AFTM	-	Adaptive fault tolerance management
ACE	-	Advanced computing environment
Ca	-	Afferent coupling
API	-	Application programming interface
AHF	-	Attribute hiding factor
AIF	-	Attribute inheritance factor
AEOSS	-	Automated execution of open source sotware
BLCR	-	Berkeley lab checkpoint/restart
BLOC	-	Blank lines of code
BFT	-	Byzantine fault tolerant
CK	-	Chidamber and Kemerer
CC	-	Class complexity
CGI	-	Common gateway interface
CLOC	-	Common lines of code
CORMA	-	Common object request broker architecture
C	-	Complexity
CMP	-	Configuration management plan
ρ	-	Correlation coefficient between ranks
CBO	-	Coupling between object classes
CO	-	Coupling factor
VG	-	Cyclomatic complexity
DIT	-	Depth of inheritance tree
T	-	Development time
Ce	-	Efferent coupling
E	-	Effort
ECC	-	Elliptic curve cryptography

XP	-	Extreme programming
FTFI	-	Failure triggering fault interaction
FP	-	Fault proneness
FDA	-	Food and drug administration
GUI	-	Graphical user interface
In	-	Instability
IDE	-	Integrated development environment
JAR	-	Java archive file
LCOM	-	Lack of cohesion in methods
LOC	-	Line of code
LAM	-	Local area multicomputer
SLOC-L	-	Logical source lines of code
l	-	Lower bound
MTTI	-	Mean time to interrupt
MC	-	Method complexity
MHF	-	Method hiding factor
MIF	-	Method inheritance factor
MLOC	-	Method lines of code
MPI	-	Multiple programming interface
NBD	-	Nested block depth
Dn	-	Normalized distance from main sequence
NOC	-	Number of children
CWORDS	-	Number of comment words
e	-	Number of edges
OOFP	-	Object oriented function points
ORB	-	Object request broker
OSS	-	Open source software
OS	-	Operating system
OASIS	-	Organization for the advancement of structured information standards

PC	-	Package complexity
PF	-	Polymorphism factor
POSIX	-	Portable operating system interface for UNIX
N	-	Program length
n	-	Program vocabulary
QA	-	Quality assurance
QMOOD	-	Quality metrics for object oriented design
RAX	-	Remote agent experiment
RFC	-	Response for a class
SLOC	-	Source lines of code
SQL	-	Structured query language
SDI	-	System design instability
TAO	-	The advanced computing environment (ACE)
n2	-	The number of unique operands in the program
n1	-	The number of unique operators in the program
N2	-	The total number of operations in the program
N1	-	The total number of persons in the program
TV	-	Threshold value
TL	-	Tolerance level
TLOC	-	Total lines of code
UML	-	Unified modeling language
URL	-	Uniform resource locator
u	-	Upper bound
V&V	-	Verification & validation
V	-	Volume
WS-BPEL	-	Web services business process execution language
WMC	-	Weighted methods per class