Contents

Chapter 1
Introduction to Ca
Polymer Composit

This chapter gives a brief introd
(CFRP) that is covered in this
are introduced. Subsequently,
degradation of CFRP composit
conditions are provided. After
described. Finally, the general

1.1 Basics of Carbon

CFRP has been recognized as
to its superior properties, such
weight ratio, good fatigue per
shape and tailorability of me
properties are mainly resulte
which are ensured by the em
interfacial bonding between
meet the quest for materials
transportation and civil engi
and traffic loads nowadays re
of existing infrastructures ar
while, the CFRP composite
rials such as concrete and st
non-renewable materials an
neering applications [7–20].
substitute to the convention
guidelines and design codes
for the applications of CFR

L. Tam et al., *Molecular Simulat*
Composite, https://doi.org/10.10