List of Tables

2.1 Data table for 20 proteins of $\alpha$ structural class ............... 34
2.2 Data table for 20 proteins of $\beta$ structural class ............... 35
2.3 Data table for 20 proteins of $\alpha/\beta$ structural class ........... 36
2.4 Data table for 20 proteins of $\alpha + \beta$ structural class ....... 37
2.5 Data table for single-domain, two-state folding proteins, belong-
ing to $\alpha$ and $\beta$ class. .................................. 38
2.6 Data table for single-domain, two-state folding proteins, belong-
ing to $\alpha\beta$ class. .................................. 39
3.1 List of fibrous proteins and the control globular proteins ....... 45
3.2 Parameters: Degree Distribution Curve Fitting ............... 48
4.1 Size ($n$) and assortativity coefficient ($r$) of a number of real-
world networks ............................................ 54
4.2 Data table for 30 single-domain two-state folding proteins. $\alpha$
and $\beta$ class proteins. .................................. 55
5.1 The PDB IDs, $L$ and $C$ values for PCN and LIN of 30 single-
domain two-state folding proteins of $\alpha$, $\beta$, and $\alpha\beta$ class of
proteins. .................................................. 66
5.2 The $r$, $C$, of PCNs and LINs, and the corresponding rate of
folding $ln(k_F)$ for 30 single-domain two-state folding proteins.
$\alpha$, $\beta$, and $\alpha\beta$ class of proteins. ...................... 67