

LIST OF TABLES

Table 1.1.	Properties of selected nuclei.
Table 2.1.	Rotation properties of angular momentum operators
Table 2.2.	Product operators in the Cartesian basis for a two-spin-1/2 system
Table 2.3.	Product operators in the shift basis for a two-spin system
Table 2.4.	Reduced rotation matrices $d_{mn}^2(\beta)$
Table 3.1.	Shim coil spherical harmonic functions
Table 3.2.	Indirect chemical shift references
Table 4.1	Selection of double-quantum coherence
Table 4.2	Rejection of zero-quantum coherence
Table 4.3	Distinguishing $\Delta p = +1$ from $\Delta p = -3$
Table 4.4	Rejecting $\Delta p = -3$
Table 4.5	Quadrature detection methods
Table 5.1.	Modified second order spherical harmonics
Table 5.2.	Spatial functions for relaxation mechanisms
Table 5.3.	Tensor operators for the dipolar interaction
Table 5.4.	Commutator relationships
Table 5.5.	Relaxation rate constants for IS dipolar interaction
Table 5.6.	Tensor operators for the CSA interaction
Table 5.7.	Tensor operators for the spin-1 quadrupolar interaction
Table 5.8.	CSA relaxation rate constants

- Table 5.9. Relaxation rate constants for the spin-1 quadrupolar interaction
- Table 6.1. Phase cycles for the E.COSY experiment
- Table 6.2. Lineshapes in a 2Q spectrum
- Table 7.1. Processing 4D $^{13}\text{C}/^{15}\text{N}$ and $^{13}\text{C}/^{13}\text{C}$ -edited NOESY data sets
- Table 7.2. Triple resonance experiments used for sequential resonance assignment
- Table 7.3 $^3J_{H^N H^\alpha}$ scalar coupling constants
- Table 9.1. Deuterium isotope shifts for $^{13}\text{C}^\alpha$ and $^{13}\text{C}^\beta$ nuclei
- Table 9.2. Processing schemes and information content for double-half-filtered NOESY
- Table 10.1. Parameterization of the Karplus equation for $^3J_{H^N H^\alpha}$
- Table 10.2. Parameterization of the Karplus equation for ϕ
- Table 10.3. Parameterization of the Karplus equation for $^3J_{H^\alpha N}$
- Table 10.4. Parameterization of the Karplus equation for χ_1