LIST OF TABLES

Table 1.1 Oxidation states of transition metal elements

Table 3.1 Physical parameters of SrO–Al₂O₃
–B₂O₃–SiO₂ glasses before and after expose of gamma rays

Table 3.2 Data on optical absorption spectra of SrO–Al₂O₃
–B₂O₃–SiO₂ glasses before and after expose of gamma rays

Table 3.3 Summary of band positions of FTIR spectra of SrO–Al₂O₃
–B₂O₃–SiO₂ glasses

Table 3.4 Summary of band positions of Raman spectra of SrO–Al₂O₃
–B₂O₃–SiO₂ glasses

Table 4.1 Summary of band positions of FTIR spectra of SrO–Ga₂O₃–B₂O₃
–SiO₂ glasses

Table 4.2 Summary of band positions of Raman spectra of SrO–Ga₂O₃–B₂O₃
–SiO₂ glasses

Table 4.3 Data on optical absorption spectra of SrO–Ga₂O₃–B₂O₃–SiO₂
  glasses before and after expose of gamma rays

Table 4.4 Physical parameters of SrO–Ga₂O₃–B₂O₃–SiO₂ glasses before and
  after expose of gamma rays

Table 5.1 Physical parameters of SrO–In₂O₃–B₂O₃–SiO₂ glasses before and
  after expose of gamma rays

Table 5.2 Data on optical absorption spectra of SrO–In₂O₃–B₂O₃–SiO₂ glasses
  before and after expose of gamma rays

Table 5.3 Summary of band positions of FTIR spectra of SrO–In₂O₃–B₂O₃–SiO₂
  glasses

Table 5.4 Summary of band positions of Raman spectra of SrO–In₂O₃–B₂O₃–
  SiO₂ glasses
Table 6.1  Various physical properties of Mn\(^{2+}\) ions doped SrO–Al\(_2\)O\(_3–\)B\(_2\)O\(_3–\)SiO\(_2\) glasses

Table 6.2  Summary of data on optical absorption of Mn\(^{2+}\) ions doped SrO–Al\(_2\)O\(_3–\)B\(_2\)O\(_3–\)SiO\(_2\) glasses

Table 6.3  Summary of data on ESR spectra of Mn\(^{2+}\) ions SrO–Al\(_2\)O\(_3–\)B\(_2\)O\(_3–\)SiO\(_2\) glasses

Table 6.4  Summary of data on the positions of the bands in IR spectra of Mn\(^{2+}\) ions doped SrO–Al\(_2\)O\(_3–\)B\(_2\)O\(_3–\)SiO\(_2\) glasses

Table 6.5  Summary of data on Raman spectral Frequencies of Mn\(^{2+}\) ions doped SrO–Al\(_2\)O\(_3–\)B\(_2\)O\(_3–\)SiO\(_2\) glasses