

# APPENDICES

## **Appendix A. Usage of Symbols and Units in this Book**

- A1. Symbols of Elements, Nuclides, and Radiation
- A2. Units of Energy
- A3. Units of Length

## **Appendix B. On the Conceptual Discrimination among Theory, Model and Hypothesis**

- B1. Theory
- B2. Model
- B3. Hypothesis

## **Appendix C. Typical Examples of Data Analysis on the TNCF Model**

- C1. Analysis of Experimental Data Sets by Cellucci et al.
- C2. Analysis of Experimental Data Sets by Chien et al.
- C3. Analysis of Experimental Data Sets by Miles et al.
- C4. Analysis of Experimental Data Sets by Clarke et al.
- C5. Analysis of Experimental Data Sets by Okamoto et al.
- C6. Analysis of Experimental Data Sets by Miley et al.
- C7. Analysis of Experimental Data Sets by Dash et al.
- C8. Analysis of Experimental Data Sets by Bressani et al.
- C9\*. Analysis of Experimental Data Sets on XLPE by Kumazawa et al.
- C10\*. Analysis of Experimental Data Sets on Pd Complexes by Iwamura et al.
- C11\*. Analysis of Experimental Data Sets on Critical and Supra-critical Electrolysis by Ohmori et al.
- C12.\* Analysis of Experimental Data Sets on Biotransmutation by Vysotskii et al.

## **Appendix D. Topics from History of Science**

- Topic 1, Electromagnetic Wave, X ray, Gamma Ray
- Topic 2, Radioactivity – Unexpected Things Often Happen –
- Topic 3, Radium and Patent
- Topic 4, Quantum born as a Result of a Trial-and-Error
- Topic 5, Bohr's Model of the Hydrogen Atom
- Topic 5a\*, Impact of the Bohr's model to contemporaries

Topic 6, Imagination discovered the Neutron

Topic 7, Wonders of Transition-Metal Hydrides

Topic 8, Background Neutron

Topic 9,  $1/f$  Fluctuation

Topic 10, Chaos, Fractal and Complexity