

2.1. SPECIFICATION OF THE STAR FILE

```
<SC_bounded_string> ::=
  <char>* <terminate> <line_of_text>*
```

The string bounded by square brackets can consist of any character including <terminate> and <blank>, and excluding the characters [and] unless they are escaped or are balanced.

```
<SB_bounded_string> ::= { <not_an_S_bracket>
  | '\\ ' '[' | '\\ ' ']'
  | <terminate>
  | <SB_bounded_string> }*
```

The development of the STAR File, and particularly its application to crystallographic data, involved many people. The major contributions are acknowledged in the references below and other chapters in this volume. We name here only contributors who are not listed elsewhere in STAR-related publications. Particular thanks are due to Richard Goddard, Ted Maslen, Andre Authier, Philip Coppens, Jim King, Mike Dacombe, Peter Strickland, Mike Hoyland and George Sheldrick for their interest, support and commitment during the development of the STAR File concepts and its applications to crystallography.

References

- Allen, F. H., Barnard, J. M., Cook, A. P. F. & Hall, S. R. (1995). *The Molecular Information File (MIF): core specifications of a new standard format for chemical data*. *J. Chem. Inf. Comput. Sci.* **35**, 412–427.
- Hall, S. R. (1991). *The STAR File: a new format for electronic data transfer and archiving*. *J. Chem. Inf. Comput. Sci.* **31**, 326–333.
- Hall, S. R., Allen, F. H. & Brown, I. D. (1991). *The Crystallographic Information File (CIF): a new standard archive file for crystallography*. *Acta Cryst.* **A47**, 655–685.
- Hall, S. R. & Cook, A. P. F. (1995). *STAR dictionary definition language: initial specification*. *J. Chem. Inf. Comput. Sci.* **35**, 819–825.
- Hall, S. R. & Sievers, R. (1990). *QUASAR: CIF syntax checking and file manipulation tool*. <ftp://ftp.iucr.org/pub/quasar>.
- Hall, S. R. & Spadaccini, N. (1994). *The STAR File: detailed specifications*. *J. Chem. Inf. Comput. Sci.* **34**, 505–508.
- ISO (2002). ISO/IEC 8824-1. *Abstract Syntax Notation One (ASN.1). Specification of basic notation*. Geneva: International Organization for Standardization.
- McCarthy, J. L. (1990). *Data interchange standards for biotechnology: issues and alternatives*. National Center for Biotechnical Information Report. NIH/DOE.
- McLennon, B. J. (1983). *Principles of programming languages, design, evaluation and implementation*. New York: Holt, Rinehart and Winston.
- Spadaccini, N., Hall, S. R. & Castleden, I. R. (2000). *Relational expressions in STAR File dictionaries*. *J. Chem. Inf. Comput. Sci.* **40**, 1289–1301.
- Westbrook, J. D. & Hall, S. R. (1995). *A Dictionary Description Language for Macromolecular Structure*. <http://ndbserver.rutgers.edu/mmCIF/ddl>.