

Literatur zur Vorlesung

Spezifikation und Entwurf von Software

- Allen, R., D. Garlan (1997). A Formal Basis for Architectural Connection. *ACM Transactions on Software Engineering and Methodology (TOSEM)* **6**, 3 (July 1997). 213-249.
- Andrews, G.R. (1991). Paradigms for Process Interaction in Distributed Programs. *ACM Computing Surveys* **23**, 1 (Mar 1991). 49-90.
- Bass, L., P. Clements R. Katzman (1998). *Software Architecture in Practice*. Reading, Mass.: Addison Wesley.
- Bernstein, P.A. (1996). Middleware: A Model for Distributed System Services. *Communications of the ACM* **39**, 2 (Feb 1996). 86-98.
- Björner, D., C. Jones (1978). *The Vienna Development Method*. Berlin, etc.: Springer.
- Card, D.N., R.L. Glass (1990). *Measuring Software Design Quality*. Englewood Cliffs, N.J.: Prentice Hall.
- Davis, A.M. (1993). *Software Requirements : Objects, Functions and States*. Englewood Cliffs, N.J.: Prentice Hall.
- DeMarco, T. (1978). *Structured Analysis and System Specification*. Yourdon Press, New York.
- Dijkstra E.W. (1968). The Structure of the THE multiprogramming System. *Communications of the ACM* **11**, 5 (May 1968). 341-346.
- Fairley, R.E. (1985). *Software Engineering Concepts*. New York, etc.: McGraw-Hill.
- Firesmith, D.C. (1994). Modeling the Dynamic Behavior of Systems, Mechanisms and Classes with Scenarios. *Report on Object Analysis and Design (ROAD)* **1**, 2 (Jul/Aug 1994). 32-36, 47.
- Freedman D.P., G.M. Weinberg (1982). *Handbook of Walkthroughs, Inspections and Technical Reviews*. 3rd edition. Boston, Toronto: Little, Brown and Co.
- Freeman, P., A. I. Wasserman (eds.) (1983). *Tutorial on Software Design Techniques*. IEEE Computer Society Press, Order Number 514.
- Frühauf, K., J. Ludewig, H. Sandmayr (1991). *Software-Prüfung. Eine Fibel*. Zürich: vdf und Stuttgart: Teubner.
- Gamma, E., R. Helm, R. Johnson, J. Vlissides (1995). *Design Patterns: Elements of Reusable Object-Oriented Software*. Reading, Mass. etc.: Assison-Wesley.
- Garlan, D. M. Shaw (1993). An Introduction to Software Architecture. In V. Ambriola and G. Tortora (eds.) *Advances in Software Engineering and Knowledge Engineering*. World Scientific Publishing Company, Singapore. 1-39 [Auch erschienen als technische Berichte von CMU bzw. SEI: CMU-CS-94-166, CMU/SEI-94-TR-21]
- Gause, D.C., G.M. Weinberg (1989). *Exploring Requirements: Quality before Design*. New York: Dorset House. 299 p. [In deutscher Übersetzung erschienen 1993 als: *Software Requirements : Anforderungen erkennen, verstehen und erfüllen*. München: Hanser.]
- Ghezzi, C., M. Jazayeri, D. Mandrioli (1991). *Fundamentals of Software Engineering*. Englewood Cliffs: Prentice-Hall.
- Glinz, M. (1998). *Software Engineering I*. Vorlesungsskript, Universität Zürich.
- Gruhn, V., A. Thiel (2000). *Komponentenmodelle*. München: Addison-Wesley.
- Gryczan, G., H. Züllighoven (1992). Objektorientierte Systementwicklung. *Informatik-Spektrum* **15**, 5 (Okt. 1992). 264-272.
- IEEE (1990). *Standard Glossary of Software Engineering Terminology*. IEEE Std 610.12-1990. IEEE Computer Society Press.

- IEEE (1993). *IEEE Recommended Practice for Software Requirements Specifications*. IEEE Standard 830-1993.
- IEEE Software (1994). Special Issue on Requirements Engineering. *IEEE Software* **11**, 2 (March 1994).
- Jackson, M.A. (1995). *Software Requirements and Specifications : A Lexicon of Practice, Principles and Prejudices*. Addison-Wesley (ACM Press books): Wokingham, etc. 228 p.
- Jacky, J. (1997). *The Way of Z: Practical Programming With Formal Methods*. Cambridge: Cambridge University Press.
- Jacobson, I., M. Christerson, P. Jonsson, and G. Övergaard (1992). *Object Oriented Software Engineering: A Use Case Driven Approach*. Amsterdam, etc.: Addison-Wesley.
- Jacobson, I (1994). Basic Use Case Modeling. *Report on Object Analysis and Design (ROAD)* **1**, 2 (Jul/Aug 1994). 15-19.
- Kühnel, B., H. Partsch, K.-P. Reinshagen (1987). Requirements Engineering: Versuch einer Begriffsklärung. Das aktuelle Schlagwort, *Informatik-Spektrum* **10**, 6 (Dez 1987). 334-335.
- Kotonya, G., I. Sommerville (1998). Requirements Engineering: Processes and Techniques. Chichester: John Wiley & Sons. 282 p.
- Krasner, G.E., S.T. Pope (1988). A Cookbook for Using the Model-View-Controller User Interface Paradigm in Smalltalk-80. *Journal of Object-Oriented Programming* **1**, 3. 26-49.
- Kruchten, P. (1995). The 4+1 View Model of Architecture. *IEEE Software* **12**, 6 (Nov 1995). 42-50.
- Lampson, B.W. (1983). Hints for Computer System Design. *Proc. 9th ACM Symposium on Operating Systems Principles*. Bretton Woods. (abgedruckt in ACM-SIGOPS **17**, 5)
- Leveson, N.G. (1986). Software Safety: What, Why, and How. *ACM Computing Surveys* **18**, 2 (June 1986). 125-163.
- Macaulay, L.A. (1996). *Requirements Engineering*. Berlin, etc.: Springer.
- Magee, J. N. Dulay, S. Eisenbach, J. Kramer (1995). Specifying Distributed Software Architectures. In Schäfer, W. and Botella, P. (eds.): *Software Engineering – ESEC'95. Proceedings of the 5th European Software Engineering Conference*, Sitges, Spain. Lecture Notes in Computer Science 989, Berlin, etc.: Springer. 137-153.
- McDermid, J. (1991). *Software Engineer's Reference Book*. Oxford: Butterworth-Heinemann. ca. 1200 p.
- McMenamin, S.M., J.F. Palmer (1984). *Essential Systems Analysis*. New York: Yourdon Press.
- Meyer, B. (1988). *Object-Oriented Software Construction*. Englewood Cliffs, N.J.: Prentice Hall.
[auf Deutsch: *Objektorientierte Softwareentwicklung*, München: Hanser, 1990]
- Meyer, B. (1992). Applying "Design by Contract". *IEEE Computer* **25**, 10 (Oct. 1992). 40-51.
- Meyer, B. (1997). *Object-Oriented Software Construction*. Englewood Cliffs, N.J.: Prentice Hall. [Neuauflage von Meyer (1988)]
- Morrison, M., J. Morrison, A. Keys (2002). Integrating Web Sites and Databases. *Communications of the ACM* **45**, 9 (Sept. 2002). 81-86.
- Nuseibeh, B., S. Easterbrook, A. Russo (2000). Leveraging Inconsistency in Software Development. *IEEE Computer* **33**, 4 (April 2000). 24-29.
- Oestereich, B. (1998). *Objektorientierte Softwareentwicklung*. R. Oldenbourg Verlag München.
- OMG (2001). *OMG Unified Modeling Language Specification*. Version 1.4.
- Page-Jones, M. (1988). *The Practical Guide to Structured Systems Design*. Englewood Cliffs, N.J.: Prentice Hall.
- Parnas, D.L. (1972). On the Criteria To Be Used in Decomposing Systems into Modules. *Communications of the ACM* **15**, 12 (Dec. 1972). 1053-1058.
- Partsch, H. (1991). *Requirements Engineering*. Handbuch der Informatik Band 5.5. München: Oldenbourg. 335 p.

- Pepper, P. et al. (1982). Abstrakte Datentypen: Die algebraische Spezifikation von Rechenstrukturen. *Informatik-Spektrum* **5**, (1982). 107-119.
- Pohl, K. (1994). The Three Dimensions of Requirements Engineering: A Framework and Its Application. *Information Systems* **19**, 3 (June 1994). 243-258.
- Pohl, K. (1996). *Requirements Engineering: An Overview*. Aachener Informatik-Berichte 96-05, Fachgruppe Informatik, RWTH Aachen.
- Robertson, S., Robertson, J. (1999). *Mastering the Requirements Process*. Addison-Wesley.
- Rumbaugh, J., Jacobson, I., Booch, G. (1999). *The Unified Modeling Language Reference Manual*. Reading, Mass., etc.: Addison-Wesley.
- Rupp, C. (2002). *Requirements-Engineering und -Management*. 2. Auflage. München: Hanser.
- Schach, S.R. (1996). Classical and Object-Oriented Software Engineering (3rd Edition). Chicago etc.: Irwin. 603 p.
- Shaw, M., D. Garlan (1996). Software Architecture: Perspectives on an Emerging Discipline. Englewood Cliffs, N.J.: Prentice Hall.
- Sommerville, I., P. Sawyer (1997). *Requirements Engineering*. Chichester, etc.: John Wiley & Sons. 391 p.
- Spivey, J.M. (1992). *The Z Notation: A Reference Manual*. Second Edition. Hemel Hempstead: Prentice Hall International.
- Stevens, W.G., G. Myers, L. Constantine (1974). Structured Design. *IBM Systems Journal*, **13**, 2. 115-139.
- Swartout, W., R. Balzer (1982). On the Inevitable Intertwining of Specification and Implementation. *Communications of the ACM* **25**, 7 (Jul 1982). 438-440.
- Szyperski, C. (1998). *Component Software: Beyond Object-Oriented Programming*. Reading, Mass., etc.: Addison-Wesley
- Tognazzini, B. (1992). *Tog on interface*. Reading, Mass., etc.: Addison-Wesley.
- Tresch, M. (1996). Middleware: Schlüsseltechnologie zur Entwicklung verteilter Informationssysteme. *Informatik-Spektrum* **19**, 5 (Okt 1996). 249-256.
- Wirfs-Brock, R., B. Wilkerson, L. Wiener (1990). *Designing Object-Oriented Software*. Englewood Cliffs, N.J.: Prentice Hall.
- Wordsworth, J.B. (1992). *Software Development with Z: A Practical Approach to Formal Methods in Software Engineering*. Wokingham, etc.: Addison-Wesley.
- Yourdon, E. (1989). *Modern Structured Analysis*. Englewood Cliffs, N.J.: Prentice-Hall.
- Züllighoven, H. (1998). *Das objektorientierte Konstruktionshandbuch*. dpunkt Verlag Heidelberg.