Mössenböck, Hanspeter
Object-oriented programming in Oberon-2. (English) [Zbl 0839.68013]

Oberon-2 is a small, clean, type-safe, general-purpose programming language developed in the traditional of Pascal and Modula-2. Its most important features are block structure, modularity, separate compilation, strong type checking, and type extension with type bound procedures. The last mentioned properties make the language suitable for object oriented programming. Let us cite the words of Niklaus Wirth from the Foreword of the book: “It is to the author’s credit that he introduces the concepts of object-oriented programming in a constructive way, demonstrates them in an evolutionarily manner, and uses suitable examples to show how these concepts can be employed judiciously. The programming in Oberon-2 provides an excellent foundation because it adds only the few typically object-oriented concepts to those of conventional procedural programming but no more”. After a short introduction into Oberon-2 (its definition is presented in Appendix), the author describes the main concepts of object-oriented programming such as: data abstraction, classes, inheritance, dynamic binding. However, the main part of the book deals with object-oriented design and programming. The programming examples are well chosen and ranges for very small illustrations to large practical system included at the end of the book. The material is well organized and presented in a concise and understandable way. The book may be considered as a good introductory text for everyone interested in object-oriented programming.

Reviewer: G.Grigas (Vilnius)

MSC:
- 68N15 Theory of programming languages
- 68-01 Introductory exposition (textbooks, tutorial papers, etc.) pertaining to computer science

Keywords:
- object-oriented programming

Software:
- Modula; Oberon