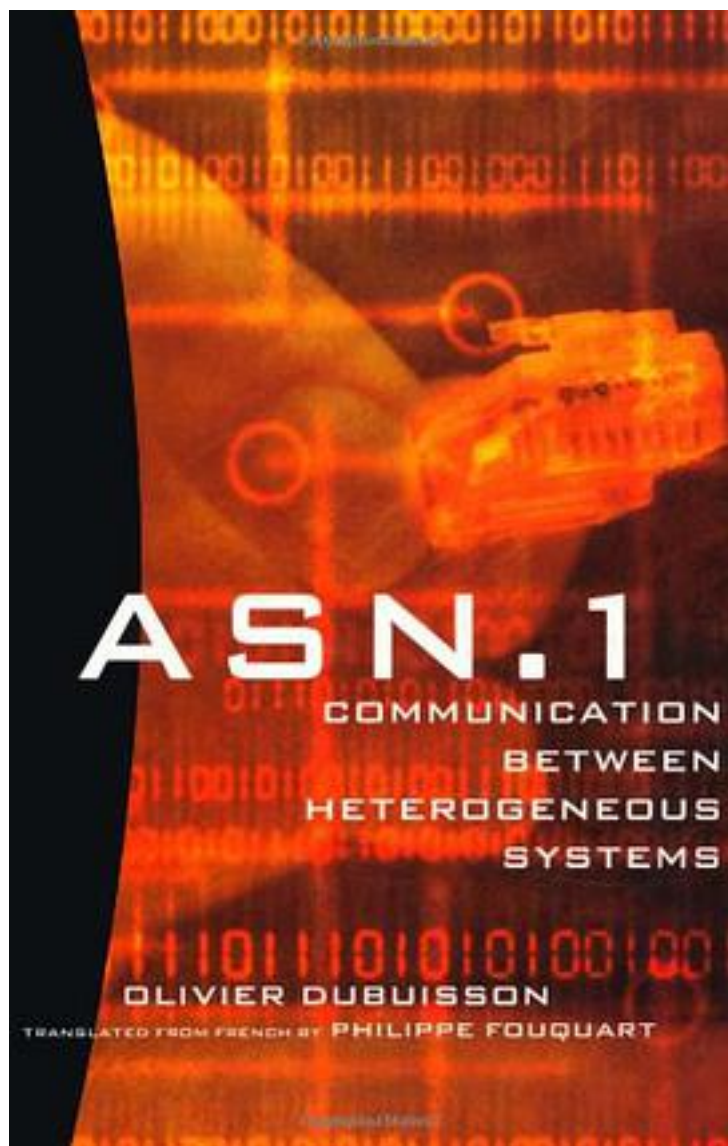


# ASN.1 Communication between Heterogeneous Systems



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ASN.1 (Abstract Syntax Notation One) is an international standard which aims at specifying of data used in telecommunication protocols. It is a computing language that is both powerful and complex: it was designed for modeling efficiently communications between heterogeneous systems.

ASN.1 was in great need of a reference book, didactic as well as precise and Olivier Dubuisson's book meets these demands. The language is comprehensively described from its basic constructions to the latest additions to the notation. The description of each of these constructions is wholly accessible and accurate. Many case studies of real-world applications illustrate this presentation. The text also replaces the language in its historical background and describes the context in which it is used, both from the application viewpoint and from that of other specification standards which use or refer to ASN.1.

This book is written by an expert of ASN.1, of its syntax and semantics, and clearly constitutes a reference on the language. It is intended for those merely interested in finding a complete and reliable description of the language and for programmers or experts who may want to look up for the proper usage of some constructions. The tools available on the website associated with this book will prove useful to both the proficient and the beginner ASN.1 user.

Michel Mauny

Project leader at INRIA, the French National Institute for Research in Computer Science and Control

作者介绍:

Olivier Dubuisson is a research engineer at France Télécom R&D, the Research & Development centre of France Télécom (formerly known as Cnet), where he is in charge of the ASN.1 expertise. He takes part in the language evolution at the ISO

and ITU-T working groups. He has also developed various editing and analysis tools for ASN.1 specifications and assists the ASN.1 users at France Télécom in numerous application domains.

Philippe Fouquart graduated from Aston University, UK with an MSc in Computer Science and Applied Maths in 1997. He worked for Cnet on ASN.1:1994 grammar and later joined France Télécom R&D in 1999 where he used ASN.1 for Intelligent Network

and SS7 protocols. He is now working on Fixed-Mobile Converged architectures and IP mobility.

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