



Operating Systems Design and Implementation (3rd Edition)

By Andrew S Tanenbaum, Albert S Woodhull

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Operating Systems Design and Implementation, 3e, is ideal for introductory courses on computer operating systems. Written by the creator of Minux, professional programmers will now have the most up-to-date tutorial and reference available today.

Revised to address the latest version of MINIX (MINIX 3), this streamlined, simplified new edition remains the only operating systems text to first explain relevant principles, then demonstrate their applications using a Unix-like operating system as a detailed example. It has been especially designed for high reliability, for use in embedded systems, and for ease of teaching.

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Editorial Review

From the Back Cover

“The presentation is excellent. The book should be on the desk of any serious student of operating systems.”--*Dr. Samuel Kohn, Thomas Edison State College*

“I would give the authors very high grades for their writing style. Topics are explained in a clear and understandable manner. Presentations are well organized and they flow in logical fashion. The book provides the right depth and breadth of explanations with the appropriate amount of rigor and abstraction.” --*Gojko Babic, Department of Computer Science and Engineering, Ohio State University*

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- Expanded and reorganized coverage of processes and communication
- Revised and enhanced coverage of CPU scheduling, deadlocks, file system reliability, and security
- Includes more than 150 end of chapter problems

· ABOUT THE AUTHORS

Andrew S. Tanenbaum has an S.B. degree from M.I.T. and a Ph. D. from the University of California at Berkeley. He is currently a Professor of Computer Science and Vrije Universiteit in Amsterdam, the Netherlands, where, for more than 30 years, he has taught operating systems, computer organization, and networking to thousands of students. Professor Tanenbaum is the winner of the ACM Karl V. Karlstrom Outstanding Educator Award and the ACM/SIGCSE Award for Outstanding Contributions to Computer Science Education.

Albert S. Woodhull is Adjunct Associate Professor of Computer Science and Biology at the School of Natural Science, Hampshire College, Amherst, MA. He also served until recently as computer system administrator for the Department of Biology in the School of Natural Science and Mathematics at the University of Massachusetts, Amherst, MA. He holds an S.B. degree from M.I.T. and a Ph.D. the University

of Washington. Supported by a Fulbright grant, he has taught at the Universidad Nacional de Ingenieria and the Universidad Nacional Autonoma de Nicaragua.

About the Author

Andrew S. Tanenbaum has a B.S. Degree from M.I.T. and a Ph.D. from the University of California at Berkeley. He is currently a Professor of Computer Science at the Vrije Universiteit in Amsterdam, The Netherlands, where he heads the Computer Systems Group. He is also Dean of the Advanced School for Computing and Imaging, an interuniversity graduate school doing research on advanced parallel, distributed, and imaging systems. Nevertheless, he is trying very hard to avoid turning into a bureaucrat.

In the past, he has done research on compilers, operating systems, networking, and local-area distributed systems. His current research focuses primarily on the design of wide-area distributed systems that scale to a billion users. These research projects have led to five books and over 85 referred papers in journals and conference proceedings.

Prof. Tanenbaum has also produced a considerable volume of software. He was the principal architect of the Amsterdam Compiler Kit, a widely-used toolkit for writing portable compilers, as well as of MINIX, a small UNIX clone intended for use in student programming labs. Together with his Ph.D. students and programmers, he helped design the Amoeba distributed operating system, a high-performance microkernel-based distributed operating system. The MINIX and Amoeba systems are now available for free via the Internet..

Prof. Tanenbaum is a Fellow of the ACM, a Fellow of the IEEE, a member of the Royal Netherlands Academy of Arts and Sciences, winner of the 1994 ACM Karl V. Karlstrom Outstanding Educator Award, and winner of the 1997 ACM/SIGCSE Award for Outstanding Contributions to Computer Science Education. He is also listed in Who's Who in the World.

Albert S. Woodhull was a faculty member in the School of Natural Science, Hampshire College, Amherst, MA for many years. He has taught at the University of Massachusetts and Smith College in the US, and he has been a visiting faculty member on multiple occasions at universities in Nicaragua, supported on two of these visits by Fulbright grants. He also served as a computer and network system administrator at the University of Massachusetts. He holds an B.S. degree from M.I.T. and a Ph.D. from the University of Washington. His home page on the web is at <http://minix1.woodhull.com/asw/>.

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