



# Calendrical Calculations

*By Nachum Dershowitz, Edward M. Reingold*

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A valuable resource for working programmers, as well as a fount of useful algorithmic tools for computer scientists, this new edition of the popular calendars book expands the treatment of the previous edition to new calendar variants: generic cyclical calendars and astronomical lunar calendars as well as the Korean, Vietnamese, Aztec, and Tibetan calendars. The authors frame the calendars of the world in a completely algorithmic form, allowing easy conversion among these calendars and the determination of secular and religious holidays. LISP code for all the algorithms are available on the Web.

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### **Editorial Review**

#### **Review**

"Because years, months, and days don't mesh simply, calendar making has been a challenge throughout history. Dershowitz and Reingold's compendium, here in its third edition, has already established itself as the definitive reference on calendrical structures. Their manual displays conversions between all the major calendar systems as well as between many fascinating schemes from bygone civilizations." Owen Gingerich, Harvard-Smithsonian Center for Astrophysics

"One of the most fascinating books I've read all year. Takes chronology into the computer age with impressive erudition and elan. Just finding out what the calendar rules are is usually close to impossible; Calendrical Calculations tell you how to use them too. A must for everyone who worries about days, months, years - and why they never quite fit." Ian Stewart

"A good, comprehensive documentation of software for calculating dates on very many calendars." P. Kenneth Seidlmann, Director of Astronomy, U.S. Naval Observatory

"One of those rare books that is both an authoritative reference source and a fun read." Danny Hillis

"The book is a definitive account of the world's major calendars and how to use them. It will be of interest not only to mathematicians, but also to historians and laymen. The authors are to be congratulated on a splendid research job." Martin Gardner

"This book must surely become the standard work on calendar conversions. No historian, chronologist, or recreational mathematician should be without it." E.G. Richards, Nature

#### **About the Author**

In addition to his expertise on calendars, Nachum Dershowitz is a leading figure in software verification in general, and termination of programs in particular; he is an international authority on equational inference and term-rewriting. Other research interests of his include program semantics and combinatorial enumeration. Dershowitz has authored or co-authored over one hundred research papers and several books and has held visiting positions at prominent institutions around the globe. He has won numerous awards for his research and teaching. He was born in 1951 and his graduate degrees in Applied Mathematics are from the Weizmann Institute in Israel. He is currently a Professor of Computer Science at Tel-Aviv University.

Edward M. Reingold was born in Chicago, Illinois in 1945. He has an undergraduate degree in Mathematics from Illinois Institute of Technology and a Ph.D. in Computer Science from Cornell University. Reingold has been at the University of Illinois at Urbana-Champaign since 1970; he now a Professor of Computer Science there. His research interests are in theoretical computer science, especially the design and analysis of algorithms and data structures. A Fellow of the Association for Computing Machinery since 1995, Reingold has authored or co-authored over fifty research papers and nine books; his papers on backtrack search, generation of combinations, weight-balanced binary trees, and drawing of trees and graphs are considered classics. He has won awards for his undergraduate and graduate teaching. Reingold is intensely interested in calendars and their computer implementation: in addition to Calendrical Tabulations and Calendrical Calculations, he is the author and maintainer of the calendar/diary part of GNU Emacs.

## **Users Review**

### **From reader reviews:**

#### **Marlon Hood:**

Have you spare time for a day? What do you do when you have more or little spare time? Yes, you can choose the suitable activity to get spend your time. Any person spent their very own spare time to take a stroll, shopping, or went to typically the Mall. How about open or even read a book called Calendrical Calculations? Maybe it is to get best activity for you. You know beside you can spend your time with your favorite's book, you can better than before. Do you agree with its opinion or you have various other opinion?

#### **Lauren Barnett:**

People live in this new moment of lifestyle always aim to and must have the spare time or they will get lot of stress from both way of life and work. So , whenever we ask do people have extra time, we will say absolutely sure. People is human not just a robot. Then we question again, what kind of activity are there when the spare time coming to anyone of course your answer can unlimited right. Then do you try this one, reading guides. It can be your alternative in spending your spare time, often the book you have read is Calendrical Calculations.

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