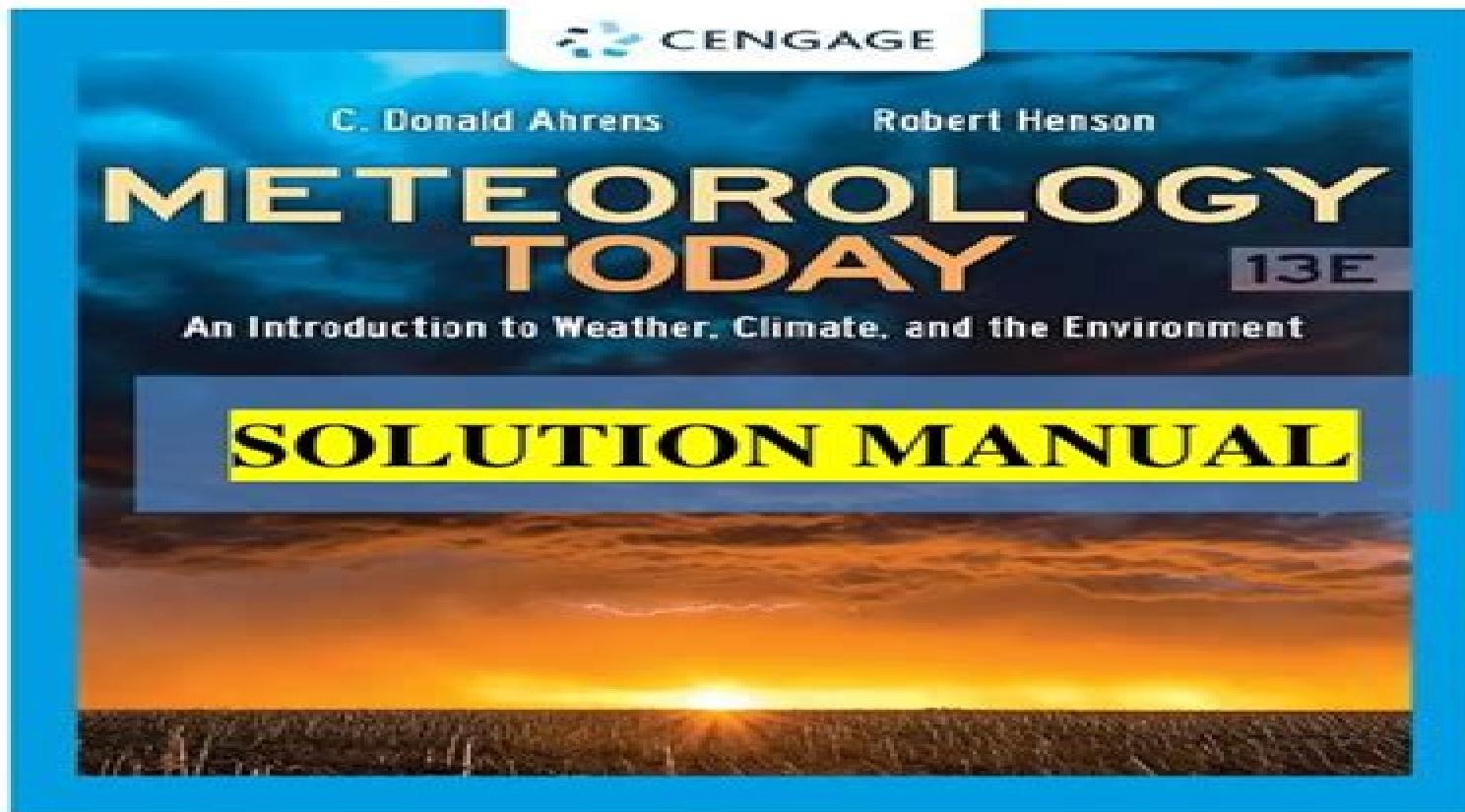


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Meinecke, 2022-03-26 This thesis investigates passively mode locked semiconductor lasers by numerical methods. The understanding and optimization of such devices is crucial to the advancement of technologies such as optical data communication and dual comb spectroscopy. The focus of the thesis is therefore on the development of efficient numerical models which are able both to perform larger parameter studies and to provide quantitative predictions. Along with that visualization and evaluation techniques for the rich spatio temporal laser dynamics are developed. These facilitate the physical interpretation of the observed features. The investigations in this thesis revolve around two specific semiconductor devices namely a monolithically integrated three section tapered quantum dot laser and a V shaped external cavity laser. In both cases the simulations closely tie in with experimental results which have been obtained in collaboration with the TU Darmstadt and the ETH Zurich. Based on the successful numerical reproduction of the experimental findings the emission dynamics of both lasers can be understood in terms of the cavity geometry and the active medium dynamics. The latter in particular highlights the value of the developed simulation tools since the fast charge carrier dynamics are generally not experimentally accessible during mode locking operation. Lastly the numerical models are used to perform laser design explorations and thus to derive recommendations for further optimizations.

Scientific and Technical Aerospace Reports, 1979 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces

documents that have recently been entered into the NASA Scientific and Technical Information Database. *Advanced Engineering Mathematics with MATLAB®* Dean G. Duffy, 2025-08-19 In the five previous editions of Advanced Engineering Mathematics with MATLAB the author presented a text firmly grounded in mathematics that engineers and scientists must understand and know how to use. Tapping into decades of teaching at the US Navy Academy and the US Military Academy and serving for twenty five years at NASA Goddard Space Flight he combines teaching and practical experience that is rare among authors of advanced engineering mathematics books. This edition continues to refine a smaller easier to read and useful version of this classic textbook. While competing textbooks continue to grow the book presents a slimmer more practical option to align with the expectations of today's students. The new edition of the author's classic textbook continues on a path to creating the best possible learning resource for instructors and students alike. Through extensive class testing over five previous editions including the author's current course at the US Naval Academy the book has been steadily improved. The primary mission of this edition is to dramatically increase the quality and quantity of examples and problems especially in the chapters on differential equations and Laplace transforms. The chapters on differential equations linear algebra Fourier series and Laplace transforms have seen the greatest changes. Of course this edition continues to offer a

wealth of examples and applications from scientific and engineering literature a highlight of previous editions MATLAB remains central to the presentation and is employed to reinforce the concepts that are taught Worked solutions are given in the back of the book An Instructor s Solutions Manual is also available **Books in Print Supplement** ,1994 *The Publishers' Trade List Annual* ,1985 *The Meteorological Magazine* ,1992 **Meteorological Monographs** ,1963

Guide on Meteorological Observing and Information Distribution Systems for Aviation Weather Services World Meteorological Organization,2006 The guide encourages the adoption of WMO ICAO standards where applicable An important factor taken into account is the cost of provision of observation compared with measurable benefits likely to be derived from a particular application Publisher s description *Proceedings* ,1982 AIAA 82-0001 - AIAA 82-0050 ,1982

The Bookseller ,1982 *Preprints - Radar Meteorology Conference* ,1968 **American Book Publishing Record** ,1988 **The Country Gentleman** ,1898 *Weather Guide for the Canadian Forest Fire Danger Rating System* B. D. Lawson,2008 This weather guide includes detailed specifications for locating and instrumenting fire weather stations taking weather observations and overwintering the Drought Code component of the FWI System The sensitivity of the FWI System components to weather elements is represented quantitatively The importance of weather that is not directly observable is discussed in the context of fuel moisture and fire behavior Current developments in the observation and measurement of fire weather and the forecasting of fire danger are discussed along with the implications for the reporting of fire weather of increasingly automated fire management information systems **Handbook of Applied Meteorology** David D. Houghton,1985-04-22 This handbook presents for the first time an authoritative comprehensive reference on meteorological knowledge and technology Designed for professionals and technicians outside the meteorological profession this broad ranging book offers general guidelines for those who need information on the effects of weather e g on heating requirements and structural strength Discusses the importance of meteorology in engineering and science as well as its general importance in society *Books and Pamphlets, Including Serials and Contributions to Periodicals* Library of Congress. Copyright Office,1974 *A Century of Weather Progress* James E. Caskey,1970

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