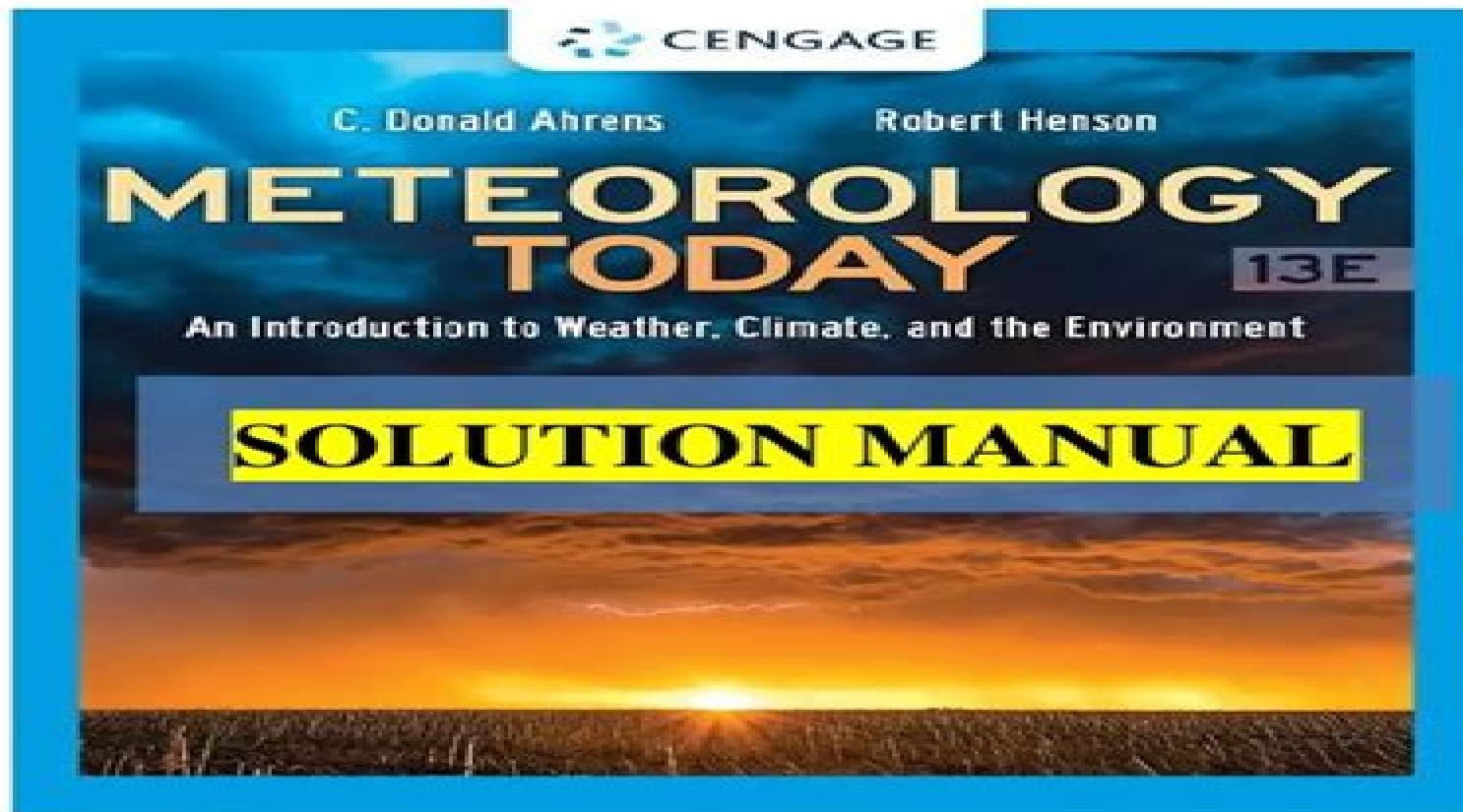


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Books in Print Supplement ,2002 *Spatio-Temporal Modeling and Device Optimization of Passively Mode-Locked Semiconductor Lasers* Stefan Meinecke,2022-03-26 This thesis investigates passively mode locked semiconductor lasers by numerical methods The 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

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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 *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 *The Publishers' Trade List Annual*, 1985 **Aerial Navigation and Meteorology** Lewis Alonzo Yancey, 1929 *Michigan Official Directory and Legislative Manual for the Years ...*, 1924 *American Book Publishing Record*, 1988 *Proceedings*, 1982 *The Bookseller*, 1982 *Scientific American*, 1919 Monthly magazine devoted to topics of general scientific interest **Bulletin** Omaha Public Library, 1913 **Monthly Bulletin** St. Louis Public Library, 1928 Teachers bulletin vol 4 issued as part of v 23 no 9 **Government Reports Announcements & Index**, 1992-04 **Transactions** American Society of Agricultural Engineers, 1918 Transactions of the American Society of Agricultural Engineers American Society of Agricultural Engineers, 1917 **Preprints - Radar Meteorology Conference**, 1968

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