Exercise 1.3

The modified requirements can be expressed as

$$y_2(t) = \{x_2(t-3) \text{ AND } x_2(t-2)\} \text{ AND } x_2(t-1).$$

The requirement for y_1 remains unchanged:

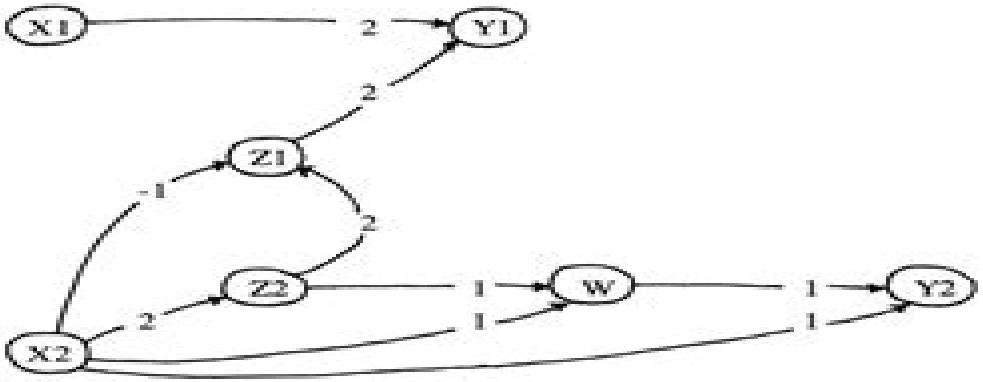
$$y_1(t) = x_1(t-1) \text{ OR } \{x_2(t-3) \text{ AND NOT } x_2(t-2)\}.$$

The network is modified by the addition of a hidden unit, W, such that

$$w(t) = z_2(t-1) \text{ AND } x_2(t-1)$$
$$= x_2(t-2) \text{ AND } x_2(t-1)$$

so that

$$y_2(t) = w(t-1) \text{ AND } x_2(t-1).$$



Exercise 1.4

If heat is applied, heat will be perceived one time step later and will continue to be perceived until one time step after the heat is removed.

If cold is applied for one time step and removed, heat will be perceived two time steps later, but only for one time step.

If cold is applied for two or more steps, cold will be perceived two time steps after the application. This perception of cold will continue until one time step after the cold is removed. Heat will then be perceived for one time step (i.e. two time steps after the cold stimulus is removed).

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L Reisser

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Distributed Computer Control Systems 1989 L. Motus,S. Narita,2014-07-04 The focus of the workshop was on recent advances in the theory applications and techniques for distributed computer control systems Topics included tools and methods for inner layers of DCCS application papers presenting operational DCCS the infiltration of true real time or time critical concepts and the emergence of artificial intelligence methods in DCCS applications leading to novel computer architectures being integrated in computer networks The book will be of interest not only to those involved in DCCS but also software engineers and distributed computing scientists **7 Algorithm Design Paradigms** Sung-Hyuk Cha,2020-06-01 The intended readership includes both undergraduate and graduate students majoring in computer science as well as researchers in the computer science area The book is suitable either as a textbook or as a supplementary book in algorithm courses Over 400 computational problems are covered with various algorithms to tackle them Rather than providing students simply with the best known algorithm for a problem this book presents various algorithms for readers to master various algorithm design paradigms Beginners in computer science can train their algorithm design skills via trivial algorithms on elementary problem examples Graduate students can test their abilities to apply the algorithm design paradigms to devise an efficient algorithm for intermediate level or challenging problems Key Features Dictionary of computational problems A table of over 400 computational problems with more than 1500 algorithms is provided Indices and Hyperlinks Algorithms computational problems equations figures lemmas properties tables and theorems are indexed with unique identification numbers and page numbers in the printed book and hyperlinked in the e book version Extensive Figures Over 435 figures illustrate the algorithms and describe computational problems Comprehensive exercises More than 352 exercises help students to improve their algorithm design and analysis skills The answers for most questions are available in the accompanying solution manual **Books in Print** ,1994 Geometric Modeling and Mesh Generation from Scanned Images Yongjie Jessica Zhang,2016-04-06 Cutting Edge Techniques to Better Analyze and Predict Complex Physical Phenomena Geometric Modeling and Mesh Generation from Scanned Images shows how to integrate image processing geometric modeling and mesh generation with the finite element method FEM to solve problems in computational biology medicine materials science and engineering Based on the author s recent research and course at Carnegie Mellon University the text explains the fundamentals of medical imaging image processing computational geometry mesh generation visualization and finite element analysis It also explores novel and advanced applications in computational biology medicine materials science and other engineering areas One of the first to cover this emerging interdisciplinary field the book addresses biomedical material imaging image processing geometric modeling and visualization FEM and biomedical and engineering applications It introduces image mesh simulation pipelines reviews numerical methods used in various modules of the pipelines and discusses several scanning techniques including ones to probe polycrystalline materials The book next

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