

Bibliography for Doctoral Qualifying Exams, Dept. of CSIE, NCYU

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Subject Name	Bibliography	
	Author, Title, Publisher, Edition, and Publication Year	Scope
演算法 Algorithm	1. Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein, <i>Introduction to Algorithms</i> , MIT Press, 2nd Edition, 2001 (ISBN: 9780262032933) 2. R. C. T. Lee, , S. S. Tseng, R. C. Chang, Y. T. Tsai, <i>Introduction to the Design and Analysis of Algorithms(A Strategic Approach)</i> , McGraw Hill, 2005 (ISBN: 9780071243469)	1. All 2. Chapter 1-8
編譯器 Compiler	1. Alfred V. Aho, Ravi Sethi, and Jeffrey D. Ullman, <i>Compilers: Principles, Techniques, and Tools</i> , Addison-Wesley, 1986. (ISBN: 0-201-10088-6) 2. Dick Grune, Henri E. Bal, Cerial J. H. Jacobs, and Koen G. Langendoen, <i>Modern Compiler Design</i> , John Wiley & Sons, LTD, 2000. (ISBN: 0-471-97697-0)	1. All 2. Chapter 1-6
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計算理論 The Theory of Computation	1. J. Martin, <i>Introduction to languages and the theory of computation</i> (3 rd Edition), McGraw-Hill 2005 (ISBN:0071240187) 2. T. A. Sudkamp, <i>Languages and Machines</i> , Addison Wesley (ISBN: 0201821362)	1 All 2 Chapter 1-15
計算機結構 Computer Architecture	1. John L. Hennessy, David A. Patterson, <i>Computer Architecture: A Quantitative Approach</i> , Morgan Kaufmann, 4th ed. , 2007 (ISBN 0123704901, 9780123704900) 2. David A. Patterson and John L. Hennessy, <i>Computer Organization and Design: The Hardware/Software Interface</i> , Elsevier, 3rd edition, (ISBN: 981-2592-17-2)	1. Chapter 1-6 2. Chapter 1-9
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資訊理論 Information Theory	Reza, Fazlollah M, <i>An introduction to information theory</i> , Dover Pubns, 1994. (ISBN: 0486682102)	

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