

# Digital Electronics

## Answer Sheet 4

1  $A + B = \overline{\overline{A} \cdot \overline{B}}$

2  $\overline{\overline{\overline{A} \cdot \overline{B}} \cdot \overline{\overline{C} \cdot \overline{D}}}$

3 a)  $= \overline{\overline{(A + B) + C}} = \overline{(A + B + C)}$

b)  $= A \cdot B + A \cdot C + C + \overline{A} \cdot B \cdot \overline{C} = A \cdot B + C + \overline{A} \cdot B = B \cdot (A + \overline{A}) + C = B + C$

c)  $= A \cdot \overline{A} \cdot B + \overline{B} \cdot \overline{A} \cdot B = 0$

d)  $= A \cdot (\overline{B} \cdot C + \overline{C}) + B \cdot C = A \cdot (\overline{B} + \overline{C}) + B \cdot C = A \cdot (\overline{B \cdot C}) + B \cdot C = A + B \cdot C$

4.

$$\begin{aligned} \overline{A} \overline{C} + A \overline{C} + BC &= \overline{C} (A + \overline{A}) + BC \\ &= \overline{C} + BC \\ &= \overline{C} \cdot \overline{B} + \overline{C} B + BC \\ &= \overline{C} \cdot \overline{B} + \overline{C} B + \overline{C} B + BC \\ &= \overline{C} (\overline{B} + B) + B (\overline{C} + C) \\ &= \overline{C} + B \end{aligned}$$

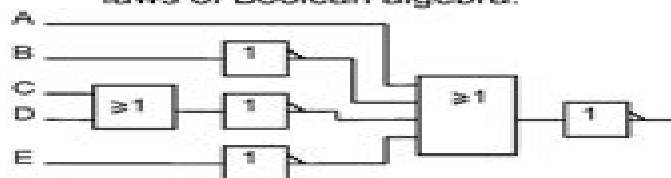
of you might be able to see that  $\overline{C} + BC = \overline{C} + B$  directly or from a truth table.

5. To show this, we need to simplify the logic, using Boolean Algebra, so as to write the expression in the form XYZ where X, Y and Z are each one of the variables or its complement.

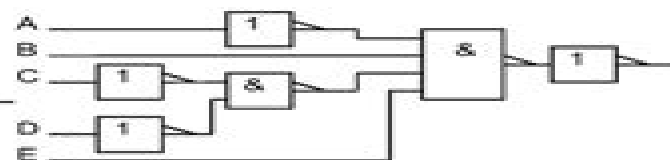
$$\begin{aligned} \overline{A(\overline{B} + A \overline{C})} &= A \cdot B \cdot \overline{A} \cdot \overline{C} \\ &= AB(\overline{A} + C) \\ &= \overline{A} \overline{A} + ABC \\ &= ABC \end{aligned}$$

Always false for any A.  $\swarrow$

6. The first thing to notice is that the two AND gates can be merged to form a four input AND gate. The solutions are then obtained by shuffling INVERTORS so that pairs of INVERTORS cancel and by applying (in a schematical sense) the laws of Boolean algebra.



(a)



(b)

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Teaching and Learning in a Digital World Michael E. Auer, David Guralnick, Istvan Simonics, 2017-12-26 This book gathers the Proceedings of the 20th International Conference on Interactive Collaborative Learning ICL2017 held in Budapest Hungary on 27-29 September 2017 The authors are currently witnessing a significant transformation in the development of education The impact of globalisation on all areas of human life the exponential acceleration of technological developments and global markets and the need for flexibility and agility are essential and challenging elements of this process that have to be tackled in general but especially in engineering education To face these current real world challenges higher education has to find innovative ways to quickly respond to them Since its inception in 1998 this conference has been devoted to new approaches in learning with a focus on collaborative learning Today the ICL conferences offer a forum for exchange concerning relevant trends and research results and for sharing practical experience gained while developing and testing elements of new technologies and pedagogies in the learning context

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reading. I forgot the code to open my Sentry safe but have the key Dec 6, 2022 — I forgot the code to open my Sentry safe but have the key which fits in the lock but does not turn. What do I do. How to Recover the Code to a SentrySafe Safe Oct 8, 2021 — Forgetting or losing your SentrySafe code doesn't necessarily mean you'll have to reprogram the safe. First, you'll need to let SentrySafe know ... The Readers' Guide to All 100 Biggles Books - Amazon.com Maniac's Guide to the Biggles Books: The Readers' Guide to All 100 Biggles Books ; Sold by papercavalier ; Publisher, Ventos Books; 3CDE. edition (August 1, ... The Readers Guide To All 100 Biggles... The Maniacs Guide To The Biggles Books: SMYTHE, Reginald. More images. Seller Image · Maniac's Guide to the Biggles Books: The: Smythe, Rowland. Stock Image ... The Maniacs Guide to the Biggles Books - AbeBooks Rowland Smythe ; Title: The Maniacs Guide to the Biggles Books ; Publisher: Ventos Books ; Publication Date: 1993 ; Binding: Soft cover ; Condition: New. The Maniacs Guide To The Biggles Books Welcome to our literary world! Right here at our magazine, we know the power of a great The Maniacs Guide To The Biggles Books testimonial. The maniacs guide to the Biggles books the readers ... The maniacs guide to the Biggles books the readers guide to all 100 Biggles books ... Ventos Books (Publisher); Production date: 1993; Place made: Birmingham ... THE MANIACS GUIDE TO THE BIGGLES BOOKS ... THE MANIACS GUIDE TO THE BIGGLES BOOKS written by W.E. Johns; Rowland Smythe published by Ventos Books (STOCK CODE: 2124258) for sale by Stella & Rose's ... THE MANIACS GUIDE TO THE BIGGLES BOOKS. ALL 100 ... THE MANIACS GUIDE TO THE BIGGLES BOOKS. ALL 100 BIGGLES BOOKS. VENTOS. 1993. ; Quantity. 1 available ; Item number. 196094027114 ; Publication Year. 1993 ; Format. CB&M Useful reference books and articles Maniacs Guide to the Biggles Books, The: by Rowland Smythe Published by Ventos Books, Birmingham, 1993 (glueback). - Lists the Biggles books in reading ... Biggles, No Friend of Reconciliation Dec 6, 2017 — The maniacs guide to the Biggles books : the readers guide to all 100 Biggles books / by Rowland Smythe; Birmingham: Ventos 1993. [4] The ...