

QUESTION 9: POWER SUPPLIES

9.1	9.1.1	Transformation steps-down the AC voltage from 220 V to the required voltage ✓	(2)
	9.1.2	Rectification converts the AC signal ✓ into a pulsating DC signal ✓	(2)
9.2	9.2.1	The diode will be forward-biased because the anode is made more positive with respect to the cathode, ✓ thereby reducing the depletion region ✓ and allowing charge carriers to cross the junction resulting in conduction. ✓	(3)
	9.2.2	The diode will be reverse-biased because the anode is made more negative with respect to the cathode, ✓ thereby widening the depletion region ✓ this will prevent majority charge carriers crossing the junction and the diode behaves like an insulator. ✓	(3)
9.3	9.3.1	The series resistor limits the current that flows through the Zener protecting it. ✓ It also acts a voltage divider with the Zener setting the Zener voltage.	(1)
	9.3.2	$P = V_Z \times I_Z$ ✓ $I_Z = \frac{P}{V_Z}$ ✓ $I_Z = \frac{2}{5}$ ✓ $= 400 \text{ mA}$ ✓	(3)
	9.3.3	$R_s = \frac{V_{in} - V_Z}{I_Z}$ ✓ $R_s = \frac{12 - 5}{0.4}$ ✓ $= 17.5 \Omega$ ✓	(3)
	9.3.4	$I_L = \frac{V_Z}{R_L}$ ✓ $I_L = \frac{5}{1000}$ ✓ $= 5 \text{ mA}$ ✓	(3)

Grade 11 Exemplars Electrical Technology 2014

Jan Randewijk, Raimund Swart



Grade 11 Exemplars Electrical Technology 2014:

Computing and Data Science Weijia Cao, Aydogan Ozcan, Haidong Xie, Bei Guan, 2022-01-12 This volume constitutes selected papers presented at the Third International Conference on Computing and Data Science CONF CDS 2021 held online in August 2021. The 22 full papers and 9 short papers presented in this volume were thoroughly reviewed and selected from the 85 qualified submissions. They are organized in topical sections on advances in deep learning algorithms in machine learning and statistics, advances in natural language processing.

Challenges and Opportunities for Transforming From STEM to STEAM Education Thomas, Kelli, Huffman, Douglas, 2020-01-10 The addition of the arts to STEM education, now known as STEAM, adds a new dimension to problem solving within those fields, offering students tools such as imagination and resourcefulness to incorporate into their designs. However, the shift from STEM to STEAM has changed what it means for students to learn within and across these disciplines. Redesigning curricula to include the arts is the next step in preparing students throughout all levels of education. *Challenges and Opportunities for Transforming From STEM to STEAM Education* is a pivotal reference source that examines the challenges and opportunities presented in redesigning STEM education to include creativity, innovation, and design from the arts, including new approaches to STEAM and their practical applications in the classroom. While highlighting topics including curriculum design, teacher preparation, and PreK-20 education, this book is ideally designed for teachers, curriculum developers, instructional designers, deans, museum educators, policymakers, administrators, researchers, academicians, and students.

Luxury and Modernism Robin Schuldenfrei, 2018-06-05 While modernism was publicized as a fusion of technology, new materials, and rational aesthetics to improve the lives of ordinary people, it was often out of reach to the very masses it purportedly served. *Luxury and Modernism* shows how luxury was present in bold, literal forms in modern designs, from lavish materials and costly technologies to deluxe buildings and household objects, and in subtler ways as well, such as social milieus and modes of living. In a period of social unrest and extreme wealth disparity between the common worker and those at the helm of capitalist enterprises generating immense profits, architects envisioned modern designs providing solutions for a more equitable future. Robin Schuldenfrei exposes the disconnect between modernism's utopian discourse and its luxury objects and elite architectural commissions. Despite the movement's egalitarian rhetoric, many modern designs addressed the desires of the privileged individual. Yet, as Schuldenfrei demonstrates, luxury was integral not only to how modern buildings and objects were designed, manufactured, and sold, but has contributed to modernism's appeal to this day. This beautifully illustrated book provides a new interpretation of modern architecture and design in Germany during the heyday of the Bauhaus and the Werkbund, tracing modernism's lasting allure to its many manifestations of luxury. Schuldenfrei casts the work of legendary figures such as Peter Behrens, Walter Gropius, and Ludwig Mies van der Rohe in an entirely different light, revealing the complexities and contradictions inherent to modernism's promotion and consumption.

BUTTON UP Dr. Ronald A. Hardert, 2014-02 This book calls into

question building additional nuclear weapons and nuclear power plants given the attendant health problems mainly childhood leukemia thyroid cancer breast and testicular cancer Our inquiry is based on our continuing involvement in the peace and social justice movements and researching oil chemical and nuclear disasters New findings support the social power theories of C Wright Mills Michel Foucault and Jurgen Habermas Data analyzed in our book are based on the experiences of ordinary people attempting to deal with nuclear secrecy and deception *IEEE Membership Directory* Institute of Electrical and Electronics Engineers,2000 **Step Into Electrical Technology** Errol Edward Glasspoole,2017 *Elements of Electrical Technology* Ontario. Department of Education,1968 **Meeting of the Workgroup of European Nurse Researcher for National Representatives** ,1990 **Electrical Technology** ,2015 **Step Into Electrical Technology** Errol Edward Glasspoole,2016 Electrical Technology Jan Randewijk,Raimund Swart,2006 *Electrical Technology* Jan Randewijk,Raimund Swart,2006 **Electrical Technology** ,2015

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web jan 19 2018 the pskmod function expects an input consisting of symbols as numbers in the range 0 m 1 not bits that is it modulates the symbols into complex values but doesn t do the mapping from bits to symbols this is also the default behaviour of the comm qpskmodulator object

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