

	Solution	Marks	Remarks
(b) (a)	Mass defect $= (2.014102 + 2.018980) u - (4.002602 + 2.018980) u$ $= 0.018984 u$ Energy released $= 0.018984 \times 931.2 \text{ MeV}$ $= 17.58 \text{ MeV}$	1.5 1.5	
	Or Energy released $= 0.018984 \times 1.661 \times 10^{-27} \times c^2$ $= 2.823 \times 10^{-12} \text{ J or } 17.58 \text{ MeV}$	1.5	
(b) (b)	To overcome the (electrostatic) repulsion between the two (positive) nuclei and becomes electrical potential energy (of the two nuclei).	1.5 1.5	
(c)	High temperature enables them to have sufficient kinetic energy (to overcome electrical repulsion between the nuclei).	1.5	
(d)	Kinetic energy becomes electrical potential energy $E_k = 2 \times \frac{1}{2} m v_{rms}^2 = 2 \times \frac{3kT}{2}$ $6.4 \text{ MeV} = 2 \times \left(\frac{3 \times 1.37 \times 10^{-23}}{2 \times 1.6 \times 10^{-19}} \right)$ $T = 1.242 \times 10^7 \text{ K}$ i.e. order of magnitude 10^7 K	1.5 1.5	Accept without the factor " $\times 2$ " $6.4 \text{ MeV} = 6.4 \times 10^{-12} \text{ J}$
	Alternatively: $E_k = \frac{1}{2} m v_{rms}^2 = 2 \times \frac{3kT}{2}$ $T = 1.24 \times 10^7 \text{ K}$ i.e. order of magnitude 10^7 K	1.5 1.5	

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JA Banks



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Hong Kong DSE Biology Critical Guide (Yellowreef) Thomas Bond, Chris Hughes, 2013-12-04 important for accurate self education provide expert guidance enable students to acquire competence as fast as possible complete edition eBook available visit www.yellowreef.com for sample chapters and more **Index of Conference Proceedings Received** British Library. Lending Division, 1984-07 **From Catastrophe to Chaos: A General Theory of Economic Discontinuities** J. Barkley Rosser, 2013-12-01 Now however we face an Age of Discontinuity in world economy and technology We might succeed in making it an age of great economic growth as well But the one thing that is certain so far is that it will be a period of change in technology and in economic policy in industry structures and in economic theory in the knowledge needed to govern and manage and in economic issues While we have been busy finishing the great nineteenth century economic edifice the foundations have shifted beneath our feet Peter F Drucker 1968 *The Age of Discontinuity* p 10 This project has had a long gestation period probably ultimately dating to a youthful obsession with watershed divides and boundaries My awareness of the problem of discontinuity in economics dates to my first encounter with the capital theory paradoxes in the late 1960s the fruits of which can be seen in Chapter 8 of this book This awareness led to a frustration over the apparent lack of a mathematics of discontinuity a lack that was in the process of rapidly being overcome at that time **Qualitative Research & Evaluation Methods** Michael Quinn Patton, 2014-10-29 Drawing on more than 40 years of experience conducting applied social science research and program evaluation author Michael Quinn Patton has crafted the most comprehensive and systematic book on qualitative research and evaluation methods inquiry frameworks and analysis options available today Now offering more balance between applied research and evaluation this Fourth Edition of *Qualitative Research* more than a hundred new summarizing and synthesizing exhibits and a wide range of new highlight sections sidebars that elaborate on important and emergent issues For the first time full case studies are included to illustrate extended research and evaluation examples In addition each chapter features an extended rumination written in a voice and style more emphatic and engaging than traditional textbook style about a core issue of persistent debate and controversy **Scientific and Technical Aerospace Reports**, 1995-05 **A Reprint of Soft Energy Notes**, 1979 **Government Reports Announcements & Index**, 1985-08 **Nuclear Science Abstracts**, 1973-04 **Solar Energy Update**, 1980 **Resources in Education**, 1987 **Government Reports Annual Index**, 1980 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z **Technical Translations**, 1960 **Energy: a Continuing Bibliography with Indexes**, 1978 **Energy**, 1977 **Physics Express**, 1961 Abstracts and condensations from various Soviet journals **International Aerospace Abstracts**, 1998 **Index of Conference Proceedings** British Library. Document Supply Centre, 1998 **Energy Research Abstracts**, 1980 **Physical Review**, 2000-08 Publishes papers that report results of research in

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