

| NEW SOUTH WALES  |
|--|
| 30ai) The star will be seen to have a  |
|  |
| periodic orbit which occurs in 6 months.   |
|  |
| The binage will looks as though it   |
| has a periodic charge in brightness.   |
|  |
|  |
| ii) Total nass at a binary star is   |
| kan kanangan kananga |
| ralculated by the equation M=m-5/00(a)   |
|  |
| where d'is the diameter of the   |
| orbit. With this equation both the man   |
|  |
| of the whole binary and the man of   |
|  |
| the secondary star can be found. Providing   |
| having enough data eg the diameter   |
|  |
| of orbit.  |
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| BOARB  | OF STUBIES                            |   |             |  |             |   |   |
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|  | · · · · · · · · · · · · · · · · · · · |   | ٧.          | •  |             |   | L   |
|  | dour out                              | af all                                  | Lie         | s Feirs  | 11          | the   | Fable.  |
|  |                                       | *************************************** |             |  |             |   |   |
| ;; <u>,</u>  | In = 10                               | CWB-WV.                                 | γs .        |  |             |   |   |
|  | = \0                                  | (10.37 -11                              | .01)/5      |  |             |   |   |
|  | . = 0                                 | . 55462                                 | -571        | 3  |             |   |   |
| The state of the s | 10                                    | . 55                                    |             |  |             |   |   |
|  | Ross                                  | 154                                     | ر ک         | 0  | 22          | Time  |   |
|  |                                       | than                                    |             |  |             |   |   |
|  |                                       |   |             |  |             | •   |   |
| •  | Final viewsa                          | -                                       |             |  |             | e<br>Marie Angele Angele<br>Marie Angele |   |
| <u> </u>   | position                              |   | <u> </u>    |  |             |   |   |
|  |                                       |   |             |  |             |   |   |
|  |                                       |   | <u> </u>    |  | <del></del> |   |   |
|  |                                       |   | <del></del> | ملاء   |             |   | ward's star   |
| امرنعنام   |                                       | 0/ 600                                  | e second.   | 1  | 1.          | 82 Parse  |   |
| boz, r.  |                                       |   | _           |  |             | Boz.  | al apparent   |
|  |                                       | to Rainard                              | (:)         |  |             |   |   |
|  | star (-82                             | perse.                                  |             |  |             |   |   |
|  | basel                                 | lne                                     |             |  |             | =,_   | \n  |
| tan  | 0 - dist                              | me e                                    |             |  |             | 7   | or abbonent   |
| ,  | to work                               | out dis                                 | Fance       |  |             |   |   |
| Ło   |                                       |   | ,           |  |             | -   |   |
|  | Darrard                               | baseline                                | -           | Martine de la companya de la company |             |   |   |
| d  | Istance =                             | tano                                    |             |  | -           |   | nago gai ga <sup>188</sup> ( Normanno and a parantago garangago and mar |
|  | •                                     |   |             | bas  | eli,me      |   |   |
| -d   | istance                               | 1 - 5                                   | 32 =        | ta   | ~ O.        |   |   |



| BOARD OF STUDIES NEW SOUTH WALES   |
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| ci) S is other astit downfu ran be   |
|  |
| found as studied from HR diagram.  |
|  |
| It has a surface temperature at between  |
| 30000 to 10000 K It lies below   |
|  |
| the main sequence as well.   |
|  |
|  |
| iis White dwarfs are made of dense   |
| degenerate motter/material. It does not  |
| ·  |
| continue to shrink because the luminosity  |
| is relatively low as well as the surface   |
|  |
| temperature no very high. If the star  |
| is not bright therefore the fuel burns   |
|  |
| longer. Since—this is the case, that   |
| is why white dwarfs tends to shrink.   |
|  |
| ·  |
| in the main seamed Finish  |
| nuclear  |
| iii) A star in the main sequence. Fusion is nuclear one of the necutar reaction where an |
|  |
| violent & uncontrolled nuclear explosion   |
|  |
| becues.  |
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de Adaptive objectives is a method attemps to use slow feed back technique in a tilescope. The image pass through the primary and clowly boing sampled in attempt to eliminate and any atmospheric turbulance before reaching the final lense. Andrer method which is used to improve the resolution & sensitivity of ground base is by interformetry. Where number of satellite disters are layed out in a particular pattern to combine radio signals together to ivagrave resolution & sensitivity In example would be the very large array which contains 27 dishes laying across out in a y pattern. I sake 37 dem. Each dish has 25m in d'aneter. This is a form of interformetry in attempt to improve resolution & sonitivity.

