Introduction to English for Scientific Communication: Homework 1 Answers

In each sentence below, the place in which "_____" appears may require an article. If an article is needed, please write in the appropriate one. If none is needed, please write "none".

1. This appears to be equivalent to __the__ ordinary second quantization formalism.

2. Synchronous activity in __the__ brain seems to be generated and maintained by __[none] / the__ interactions among __[none]__ neurons.

3. __The__ quantity *h* has __an__ interesting physical interpretation.

4. In __[none]__ Sec. 4, we reduce this set of equations to __a__ system of

__[none]__ simpler equations.

5. In this case, __an__ operator of this kind does not exist.

6. We treat __[none]__ ν and *d* as __[none]__ continuous functions and therefore express them as ν (*x, t*) and *d*(*x, t*).

7. We plot __the__ coupling strength as __a__ function of *y* in

__[none]__ Fig. 1(a).

8. This type of behaviour is seen with regard to __the__ eigenvector *v*1 or *v*2.

9. __The__ shading of __the__ circle positioned at __the__ centre of each cell indicates __the__ population of that cell.

10. In each case, only __[none]__ one pair of __[none] / the__ solutions is stable.

11. This is one of __the__ key concepts in __the__ field of __[none]__ number theory.

12. In this paper, we consider __an / the__ infinitesimal deformation of

__a__ regular arrangement of __[none] / the__ particles.

13. As __a__ result of __the / [none]__ growth of these cells, __[none]__ new structures are formed.

14. We choose __[none]__ $\hbar\omega_D$ as __the__ energy unit.

15. __The__ above results provide __a__ clear understanding of the resonant behaviour.

16. Most of the change occurs in the first half of the operation.

17. We consider the simple equation $d\tau(x)/dx = f(x)$, where

[none] f(x) is the second function appearing in [none] (3.4).

18. In this case it is most convenient to use [none] cylindrical coordinates.

19. This treatment is analogous to the standard algebraic treatment of the harmonic oscillator.

20. One of the main results is given in the next section.