



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2015_BJAST_16526
Title of the Manuscript:	Forward and Inverse Problem Formulation of Optical Tomography Based On Equation of Radiative Transfer
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	1. In present article, the authors only developed the forward and inverse formulation of optical tomography theoretically. The numerical or experimental tests should be given to prove the efficient or accurate performance of the inverse method. 2. In page. 4, "the matrix S can be expressed as direct product of two smaller matrices," what is the matrix S? 3. The "Table 1, Figure 1, Figure 2 and Figure 3" are not cited in the manuscript which should be cited clearly. In addition, in Table 1, what do the 'Method I' and 'Mthod II' mean? The authors should express it clearly. 4. The camprison of the optical image reconstruction method with traditional method should be given in the manuscript.	1. The sole objective of the paper is theoretical and mathematical development of forward and inverse problem of optical tomography in frequency domain. Hence, mathematical and theoretical development of forward and ill-posed inverse problem is covered in this paper. 2. In page. 4, "the matrix Y can be expressed as direct product of two smaller matrices. It is the matrix Y not S. Mistake is made correct. 3. The "Table 1, Figure 1, Figure 2 and Figure 3" are cited clearly now. Actually there are two possibility ways of storage of matrices. Either you can store X-Y directly or you can store X, W_o, K and E_o and then solve them for X-Y. In this paper, here Method I means direct computation of X-Y whenever it is possible to do so and Method II indicates the indirect computation of X-Y. 4. Traditional methods are discussed in the section of introduction and on the basis of incompetency of such methods; frequency domain based equation of radiative transfer is derived and developed as frequency domain gives us information of both intensity and phase and hence considerable crosstalk is reduced by the variation of both intensity and phase.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		