



# Laser Heating Applications: Analytical Modelling

*Bekir Yilbas*

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## **Laser Heating Applications: Analytical Modelling** Bekir Yilbas

Thermal treatment of materials occupies a significant, increasing proportion of MSE activity and is an integral component of modern curricula as well as a highly monetized component of industrial production. Laser processing of materials offers advantages over conventional methods of processing. Some of these advantages include fast processing, precision of operation, low cost and local treatment. Analytical modeling of laser processing gives insight into the physical and mathematical aspects of the problem and provides useful information on process optimization. This work from Professor Yilbas, a world-recognized expert in laser materials processing, provides the necessary depth and weight of analysis, collating mathematical and physical modeling and experimentation with the necessary discussion of applications. It meets coherence in topics with high technical quality. It encompasses the basics of laser processing and provides an introduction to analytical modeling of the process. Fundamentals and formulation of the heating process are presented for numerous heating conditions.

- Detailed analytical solutions for laser heating problems (including thermal stress) aids analysis of linkage between process parameters, such as laser pulse and laser intensity, and material response, such as temperature and stress
- Encompasses practical solutions to thermal heating problems (unlike the length solutions of numerical schemes)
- Extensive fourier and non-fourier treatments and consequent analysis provides improved understanding of mathematical transformations

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