

In the direct problem associated with the physical problem described above, the thermophysical properties C_i , k_i ($i = t$ or p), thermal conductance H , blood perfusion rate $W(r)$, external convection coefficient h_{∞} , external air temperature T_{∞} as well as the arterial temperature T_a , initial and boundary conditions, are known. The objective of the direct problem is then to determine the transient temperature field in the two regions; i.e. the tissue and the probe.

The solution of the direct problem given in Equations (1)–(8) is obtained numerically by using the finite difference method with a pure implicit scheme in time [14]. The numerical solution may show an oscillatory behaviour at the contact interface due to the significant difference between the material characteristics of the probe and the tissue. To overcome this instability, the Fourier number, resulting from the time and space subdivision and defined as

$$Fo = \frac{\alpha \Delta t}{(\Delta x)^2} \quad (9)$$

should be the same for the two mediums, where Δt and Δx represent the time and space steps. Then, a stable numerical solution of the direct problem is obtained by setting

$$Fo = \frac{\alpha_t \Delta t}{(\Delta x_t)^2} = \frac{\alpha_p \Delta t}{(\Delta x_p)^2} \quad (10)$$

for the two mediums. Thermal diffusivities α_t and α_p are set constants and imposed by the nature of the two regions in contact. The time evolution is often preferred to be the same for the two regions which exclude any choice on the time step Δt . Only the space grid size offers the possibility to be chosen so that the condition (10) will be satisfied. Practically as the probe has a thin thickness, its space grid Δx_p can be easily chosen and then Δx_t will be deduced as a function of Δx_p , Δt , α_t and α_p .

4. INVERSE PROBLEM

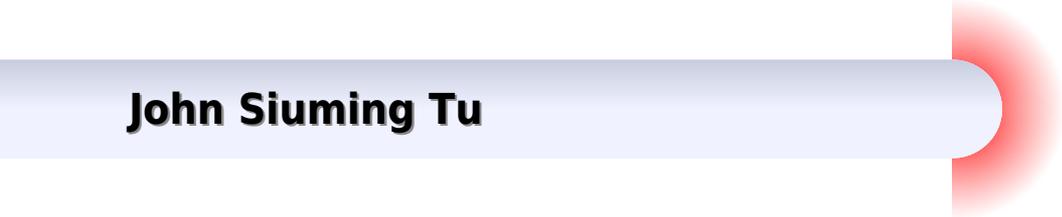
For the inverse problem considered here, the constant thermal conductance H and the time-dependent blood perfusion $W(r)$ are regarded as two unknowns, while the other quantities appearing in the formulation of the direct problem described above are assumed to be known precisely.

The additional information needed in the simultaneous estimation of the parameter H and the function $W(r)$ is available from the readings of a heat flux sensor installed on the inner side of the probe (the sensor is a part of the probe) which is in imperfect thermal contact with the tissue region (Figure 1). Since it is desirable for the probe to be non-invasive, the heat flux measurement is performed outside the tissue domain.

In several methods, inverse problems are solved by minimizing a residual functional J based on the ordinary least square norm and coupled with some stabilizing technique used in the iterative phase of the estimation procedure. The sum of the squared residuals between the measured data and the responses of a model simulating the physical problem under picture defines the least square norm in the space where the unknown quantities belong to. For continuous

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Numerical solution of inverse heat conduction problems using Ansys and Matlab Silvia Tobajas Cuevas,2001

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book will also be of interest to those involved in energy systems aerospace chemical engineering and mechanical engineering

generally **Inverse Heat Transfer Problems** Oleg Mikhaïlovich Alifanov,1994 This research monograph presents a

systematic treatment of the theory of the propagation of transient electromagnetic fields such as optical pulses through

dielectric media which exhibit both dispersion and absorption The work divides naturally into two parts Part I presents a

summary of the fundamental theory of the radiation and propagation of rather general electromagnetic waves in causal

linear media which are homogeneous and isotropic but which otherwise have rather general dispersive and absorbing

properties In Part II we specialize to the propagation of a plane transient electromagnetic field in a homogeneous dielectric

Although we have made some contributions to the fundamental theory given in Part I most of the results of our own research

appear in Part II The purpose of the theory presented in Part II is to predict and to explain in explicit detail the dynamics of

the field after it has propagated far enough through the medium to be in the mature dispersion regime It is the subject of a

classic theory based on the research conducted by A Sommerfeld and L [An Iterative Approach to the Solution of Inverse](#)

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Inverse Heat Transfer Problems Oleg Mikhaïlovich Alifanov,Evgeniï Alekseevich Artiukhin,Sergeï Vladimirovich

Rumiñantsiev,1995-01-01 This monograph is based on the author's studies carried out to investigate one of the most

promising trends in the theory of ill posed problems namely iterative regularization and its application to inverse heat

transfer problems Effective methods for solving inverse problems have allowed researchers to simplify experiments considerably and to increase the accuracy and confidence of results in experimental data processing The authors discuss a broad range of problems concerned with both the theory of regularizing gradient algorithms and peculiarities of their application to the most often encountered inverse problems of reconstruction of external heat fluxes and the identification of mathematical models for heat transfer processes

Inverse Heat Conduction Problems Helcio Rangel Barreto
Orlande, 1993

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