

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  $h_{\infty}$ , external air temperature  $T_{\infty}$  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  $\Delta t$  and  $\Delta x$  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  $\alpha_t$  and  $\alpha_p$  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  $\Delta t$ . 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  $\Delta x_p$  can be easily chosen and then  $\Delta x_t$  will be deduced as a function of  $\Delta x_p$ ,  $\Delta t$ ,  $\alpha_t$  and  $\alpha_p$ .

#### 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

# A Z Library Inverse Heat Conduction Problem Matlab Code

**Silvia Tobajas Cuevas**



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