The Stefan Problem

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The Stefan Problem
In mathematics and its applications, particularly to phase transitions in matter, a Stefan problem is a particular kind of boundary value problem for a system of partial differential equations (PDE), in which the boundary between the phases can move with time.

Stefan problem - Wikipedia
The definition of the weak solution of a Stefan problemis based on the classical formulation of the Stefan problem. For simplicity, first a weak formulation of a one-dimensional two-phase Stefan problem will be defined in the region $0 \le x \le 1$. For multi-dimensional Stefan problems, weak formulations can be defined similarly (see § 11.2.1).

Stefan Problem - an overview | ScienceDirect Topics
The Stefan Problem (Translations of Mathematical Monographs : Vol. 27) First Edition by L. I. Rubinstein (Author) See all formats and editions Hide other formats and editions

The Stefan Problem (Translations of Mathematical ...
Stefan problem A problem that arises when studying physical

processes related to phase transformation of matter.

Stefan problem - Encyclopedia of Mathematics

Roughly speaking, the Stefan problem consists on determining the temperature distribution in a medium undergoing a phase change. This book describes the analytical side of the problem from the first existence and uniqueness results obtained in the first half of the twentieth to approximately 1987.

The Stefan Problem (Degruyter Expositions in Mathematics ...

The multi-phase stationary problem. A filtration analog to the Stefan problem The single-phase Stefan problem for a general one-dimensional equation of parabolic type. The generalized solution of the Stefan problem Numerical methods for the solution of the Stefan problem Problems:

The Stefan problem, (eBook, 1971) [WorldCat.org]

The Classical Stefan Problem: Basic Concepts, Modelling and Analysis with Quasi-Analytical Solutions and Methods, New Edition, provides fundamental theory, concepts, modelling and analysis of the physical, mathematical, thermodynamical and metallurgical properties of classical Stefan and Stefan-like problems as applied to heat transfer problems involving phase-changes, such as from liquid to solid.

The Classical Stefan Problem | ScienceDirect

Essentially, after a cursory comment, Stefan describes the problem of the freezing of a column of ice in contact with a column of water of a higher temperature, with no indication as to his motivation. There is no reference to previous calculations, or to observations or analogies that might have motivated his theoretical analysis.

The Stefan Problem: Polar Exploration and the Mathematics ...

Stefan condition A condition describing the law of motion of the boundary between two different phases of matter and expressed as a law of energy conservation under phase transformation.

Stefan condition - Encyclopedia of Mathematics

SOME REMARKS ON THE STEFAN PROBLEM 351 Letting t = s — zH in this integral, we find that (15a) H =-7-^7-s exp (-t2/S - 2zHt/Ô) dt, 5 exp ízh2/ki) Jo so that as A increases, the integral in (15a) must decrease; since zH decreases with increasing .4, z2B — zB must decrease and so z2B must decrease as well. However, by

Some Remarks on the Stefan Problem*

The Stefan problem. [Lev I Rubinštejn] Home. WorldCat Home About WorldCat Help. Search. Search for Library Items Search for Lists Search for Contacts Search for a Library. Create lists, bibliographies and reviews: or Search WorldCat. Find items in libraries near you. Advanced Search Find a Library ...

The Stefan problem (Book, 1971) [WorldCat.org]

Appears in 3 books from 1971-1999 Page 1 - In this work the problem was posed of determining the thickness of the solid crust generated by the cooling of a liquid filling the halfspace x > 0 under...

The Stefan Problem - L. I. Rubinshteïn - Google Books

The term Stefan problem is generally used for heat transfer problems with phase-changes such as from the liquid to the solid. Stefan problems have some characteristics that are typical of them, but certain problems arising in fields such as mathematical physics and engineering also exhibit characteristics

The Classical Stefan Problem: Basic Concepts, Modelling ...

Problems on Stefan Boltzmann Law Example: A body of emissivity (e = 0.75), the surface area of 300 cm 2 and temperature 227 ºC are kept in a room at temperature 27 ºC. Using the Stephens Boltzmann law, calculate the initial value of net power emitted by the body. Using equation (3);

Stefan Boltzmann Law - Derivation, Formula, Equation, Examples

The Stefan problem is an initial-boundary value problem of a

parabolic differential equation with discontinuous coefficients on the phase change interfaces. The phase change occurs for a given value of temperature (freezing point), where the energy balance on the interface is written in

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