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A Bibliography on Moving-Free Boundary Problems for the Heat-Diffusion Equation

The Stefan Problem

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A BIBLIOGRAPHY ON MOVING-FREE BOUNDARY PROBLEMS FOR THE HEAT-DIFFUSION EQUATION. THE STEFAN PROBLEM (*)

by

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ABSTRACT

We present a bibliography on moving and free boundary problems for the heat-diffusion equation, particularly regarding the Stefan problems.

It contains 2528 titles referring to 263 scientific journals, 66 books, 29 symposia (having at least 3 contributions on the subject), 24 collections and 24 technical reports.

It tries to give a comprehensive account of the western existing mathematical-physical-engineering literature on this research field.

Primary Mathematics Subject Classification Number (*) : 35R45

Secondary Mathematics Subject Classification Number (*) : 35Kxx, 35R30, 46N05, 49A22, 65Mxx, 65Nxx, 76R50, 76S05, 80A20, 93C20.

Primary key words : Enthalpy formulation or method, Filtration, Free boundary problems, Freezing, Melting, Moving boundary method, Mushy region, Phase-change problem, Solidification, Stefan problem.

Secondary key words : Continuous mechanics, Diffusion process, Functional analiysis, Heat conduction, Mathematical methods, Numerical methods, Partial differential equations, Variational inequalities, Weak solutions.

(*) Following the 1980 Mathematics Subject Classification (1985 Revision) compiled by Mathematical Reviews and Zentralblatt fur Mathematik.

PREFACE

In the last two decades the number of papers on free boundary problems has increased dramatically. This fact was motivated by the more and more frequent occurrence of such problems in an impressively wide range of application. Therefore I belive that the effort made by Dr. Tarzia in collecting, ordering and classifying the existing literature on one of the most important sector in this field — namely the Stefan problem — will prove to be very useful to a sustantial number of people from mathematics and applied sciences.

Change of phase and other free boundary problems appear among the main research themes of the Italian National Project *Equazioni di evoluzione e applicazioni fisico-matematiche* , financed by the Italian Ministry of Education (Ministero Pubblica Istruzione). Moreover, many people in this Project have had long collaboration with Dr. Tarzia. For these reasons it seemed to me an appealing idea to have Dr. Tarzia's bibliography as the first of a series of specific research subjects within the project.

I wish Dr. Tarzia the success his apassionate work merits.

Antonio Fasano
Director of the Italian National Project
Equazioni di evoluzione e applicazioni fisico-matematiche

I. INTRODUCTION.

This bibliography on moving and free boundary problems (M-FBP) for the heat-diffusion equation (H-DE) contains about 2500 references to works appeared on approximately 400 different kinds of publications. It tries to give a comprehensive account of the western existing mathematical-physical-engineering literature on this research field.

Almost all the material on the subject, published after the historical and first paper of Lamé-Clapeyron (1831), has been collected. Sources include scientific journals, symposium or conference proceedings, technical reports and books.

References quoted in Tarzia (1981,84) (773 references in the year 1981 and other 936 references in 1984) are included in the present bibliography.

This issue is a preliminary document to be up-to-dated by addition of new references with the purpose of making a data-base and a classification similar to the one done in the 1981 bibliography.

All the papers are directly related to some aspects of the M-FBP for the H-DE, particularly regarding the phase-change process known in the literature as Stefan problem (we remark that a more appropriate name would be Lamé-Clapeyron (Stefan) problem). They are concerned with theoretical, numerical and experimental methods and also with various possible applications.

Together with the term "Stefan problem", the term phase-change problem, melting or freezing problem, fusion or solidification problem, moving or free boundary problem, Stefan-like problem are used, according to the particular field being studied.

The author's purpose in writing this bibliography is to provide usable information in the field of M-FBP for the H-DE both for the theoretical and the applied aspects.

The collection of titles began in 1977. As a result of the systematic organization of the material accumulated, a first bibliography (with 773 references) on M-FBP for the H-DE appeared in 1981. 644 papers (of the 773 titles) were classified into three main branches (theoretical, numerical and experimental) each containing several sub-sections, according to the following plan:

I. Moving boundary problems for the heat equation
I.1. One-dimensional case
I.2. Multidimensional case
I.3. Physical applications
I.4. Application to free boundary problems

II. Free boundary problems for the heat equation
II.1. Free boundary problems of Stefan type
II.1.1. One-dimensional case
II.1.1.1. One-phase problem (theoretical, numerical methods and applications)
II.1.1.2. Two-phase problem (theoretical, numerical methods and applications)
II.1.2. Multidimensional case
II.1.2.1. One-phase problem (theoretical, numerical methods and applications)
II.1.2.2. Two-phase problem (theoretical, numerical methods and applications)
II.1.3. Other generalities
II.1.3.1. Free boundary problems in a gaseous state
II.1.3.2. Experimental works
II.1.3.3. Solid-liquid interphase

II.1.3.4. Other applications
II.2. Free boundary problems not of stefan type
II.2.1. Diffusion-consumption of oxygen in absorbing tissue
II.2.2. Flow of two immiscible fluids in a porous medium
II.2.3. Movement of a compressible fluid through a porous medium
II.2.4. Impact of a viscoplastic bar on a rigid obstacle
II.2.5. Chemical reactions between two substances
II.2.6. Other free boundary problems for the heat equation
II.2.6.1. Of an implicit type
II.2.6.2. Of an explicit type

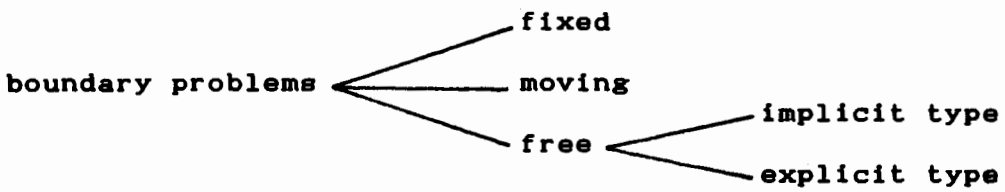
Our aim is now to continue this work on the same line, including a new collection of titles.

II. SOME GENERAL REMARKS

NOTE 1:
To avoid confusion between the terms "free boundary" and "moving boundary", we think it is advisable to point out the difference between them, especially since both terms are used indiscrimenately in the literature (see e.g., the previous International Symposium on this subject).

On the other hand, in Cryer (1978) the author discusses the relationship between moving boundary problems (parabolic and time-dependent) and free boundary problems (elliptic and steady state). Because of this definition, approximately 1% of the references (namely 53) in his bibliography on free boundary problems [Cryer (1977)] is concerned with heat conduction and diffusion (see 1.6).

Our definition follows the one frequently used e.g. in the Italian literature. In general, the problems given for the heat or diffusion equation are classified in the following way:



The fixed boundary problems (FiBP) for the heat equation are those studied in the domain $(x_1,x_2)x(0,T)$, i.e., the classical problems analysed in any basic course of partial differential equations, such as:

$$(\text{FiBP}) \begin{cases} u_t - u_{xx} = f(x,t), & x_1 < x < x_2,\ 0 < t < T, \\ u(x,0) = h(x), & x_1 \leqslant x \leqslant x_2, \\ u(x_1,t) = f_1(t) \text{ or } & u_x(x_1,t) = f_1(t),\ 0 < t < T, \\ u(x_2,t) = f_2(t) \text{ or } & u_x(x_2,t) = f_2(t),\ 0 < t < T, \end{cases}$$

which are not included in our bibliography and analysis.

The moving boundary problems (MBP) for the heat equation are those studied e.g., in the domain $\{(x,t)/s_1(t) < x < s_2(t), \quad 0 < t < T\}$ with $s_1(t) < s_2(t)$, functions given in $(0,T)$, i.e., the spatial domain of the unknown function varies with time because of a law of movement, known a priori, such as

$$
(MBP)\ \begin{cases}
u_t - u_{xx} = f(x,t), & s_1(t) < x < s_2(t),\ 0 < t < T,\\
u(x,0) = h(x), & s_1(0) \leqslant x \leqslant s_2(0),\\
u(s_1(t),t) = f_1(t) \text{ or } u_x(s_1(t),t) = f_1(t), & 0 < t < T,\\
u(s_2(t),t) = f_2(t) \text{ or } u_x(s_2(t),t) = f_2(t), & 0 < t < T,
\end{cases}
$$

Moreover, the domain can be of the form $\{(x,t)/x < s(t),\ 0 < t < T\}$ or $\{(x,t)/s(t) < x,\ 0 < t < T\}$. All these problems were originally studied at the beginnig of the XX century by Gevrey, Goursat, Holmgrem, Levi, etc., and of course there exists an enormous bibliography on this subjet. We refer e.g. to J.R. Cannon's book (1984).

The free boundary problems (FBP) for the heat equation are those in which the spatial domain of the unknown function varies with time because of a law of movement <u>not known</u> a priori. The fact of not knowing the boundary or part of it, determines, of course, the mathematical need to impose new condition on the unknown function, which will depend on the physical problems studied. In general, the new condition to be imposed on the unknown function is deduced from the principle of conservation of energy across the boundary. Thus it follows that this boundary is the complementary unknown of the problem, and is called <u>free boundary</u> of the problem under analysis.

One of the most important FBP for the H-DE is the so-called <u>Stefan problem</u>. Its mathematical formulation, in a dimensionless form, is given by: Find $T > 0$, $u = u(x,t)$ and $x = s(t)$ such that they satisfy, e.g., the following conditions

$$
(FBP)\ \begin{cases}
\text{i) } u_t - u_{xx} = 0, & 0 < x < s(t),\ 0 < t < T,\\
\text{ii) } s(0) = b,\\
\text{iii) } u(x,0) = h(x), & 0 \leqslant x \leqslant b,\\
\text{iv) } u(s(t),t) = 0, & 0 < t < T,\\
\text{v) } u_x(s(t),t) = -\dot{s}(t), & 0 < t < T,\\
\text{vi) } u(0,t) = f(t) \text{ or } u_x(0,t) = f(t), & 0 < t < T.
\end{cases}
$$

The condition (FBPv) is called the <u>Stefan condition</u>.

Many free boundary problems for the heat equation can be divided into two classes, the explicit and the implicit types, according to whether the speed of the free boundary appears explicitly, in the conditions imposed on this boundary. That is to say, if the free boundary is given by $x = s(t)$, then the problem will be of an explicit (implicit) type if $\dot{s}(t)$ appears (does not appear) in the condition imposed on $x = s(t)$. An example of a (FBP) of explicit type is the classical Stefan problem and an example of the implicit type is the diffusion-consumption of oxygen in a living tissue. The free-boundary conditions for the last problem are given by :

$$
\begin{cases}
u(s(t),t) = 0, & 0 < t < T,\\
u_x(s(t),t) = 0, & 0 < t < T.
\end{cases}
$$

In general, free boundary problems of explicit and implicit types are related to each other [Schatz (1969), Fasano (1974)].

NOTE 2

Among the FBP for the H-DE we may have Stefan problem, diffusion-consumption of oxygen in a living tissue, noncatalytic gas-solid diffusion-reaction problem, penetration of solvents into glassy polymers, continuous casting problem and other solidification processes, ground freezing, ablation by melting, welding two steel plates, the shape of laser meltpools, electromechanical machining, Hele-Shaw flow, solidification of binary alloys, storage of solar energy, porous media, fresh and salt groundwater, supercooling and superhealting effects, freezing of foodstuffs, etc.

In order to have an idea of the importance of the methods and applications related to F-MBP for the H-DE, we may mention :

i) Conferences, meetings or seminars completely devoted to the subject [Ockendon-Hodgkins (1975), Hoffmann (1977), Wilson-Solomon-Boggs (1978), Magenes (1980), Albretch-Collatz-Hoffmann (1982), Fasano-Primicerio (1983), Bossavit-Damlamian-Frémond (1985), Niezgodka-Pawlow (1985)]. Moreover, didactic seminars were given in [Tarzia (1984, 1987), Fasano-Primicerio (1986)].

ii) Books or booklets exclusively devoted to this subject [Crank (1984), Datzeff (1970), Elliott-Ockendon (1982), Fasano (1987), Meirmanov (1986), Rubinstein (1972), Tarzia (1987), Yamaguchi-Nogi (1977)].

iii) Books that devote several chapters or sections to the subject, for example [Barbu (1984), Cannon (1984), Carslaw-Jaeger (1959), Chalmers (1984), Crank (1956), Diaz (1985), Eckert-Drake (1959,1972), Flemings (1974), Friedman (1964,1982), Goursat (1927), Jerome (1983), Kinderlehrer-Stampacchia (1980), Ladyzenskaja-Solonnikov-Ural'ceva (1968), Lions (1969,1976), Luikov (1968), Lunardini (1981), Naumann (1984), Ozisik (1980), Rodrigues (1987), Szekely-Themelis (1971), Tarzia (1981), Tayler (1986), etc.].

iv) Review papers on the subject, both from the theorical and/or numerical point of view such as [Aronson (1986), Bankoff (1964), Barbu (1985), Biloni (1978), Crank (1981), Danilyuk (1985), Duvaut (1976), Fasano (1987), Fox (1975), Friedman (1979), Furzeland (1980), Garguichevich-Sanziel (1984), Hoffmann-Niezgodka (1983), Luikov (1971), Magenes (1976,1981), Meyer (1978,1983), Muehlbauer-Sunderland (1965), Niezgodka (1984), Nochetto (1984), Primicerio (1973,1981), Quilghini (1975), Rodrigues (1987), Rubinstein (1980), Saguez (1981), Sestini (1960), Stakgold (1986), Tarzia (1984,1986), Verdi (1987), Villa (1984), etc.].

v) A long bibliography on the subject can be found in [Danilyuk (1985), Nitsche (1980), Primicerio (1981), Senf (1984), Tarzia (1981,1984), Wilson-Solomon-Trent (1979), and in other books and review papers cited above].

NOTE 3

i) Active research during the past three decades has produced a variety of methods for finding theoretical, numerical and experimental results as well as important practical

applications.

The number of titles on M-FBP for the H-DE has been increasing during the past years; an analysis of this fact is given in Table I:

Period	Numbers of titles of the present bibliography which have been published
1831	1 (G. Lamé - B.P. Clapeyron)
1889-1891	3 (J. Stefan)
1901-1930	10
1931-1950	21
1951-1960	86
1961-1970	303
1971-1980	982
1981-1986/7	1122
Total	2528

ii) The 2528 titles of our bibliography have been published in the following form (Table II) :

Type of publication	Number of references
* Scientific journals	1798
* Papers published in a Symposium (edited as a book)	280
* Papers published in a Symposium (edited as a collection)	208
* Technical reports	130
* Books which have at least a chapter or a section on M-FBP for the H-DE	66
* Edition of a Symposium which has at least 3 articles on M-FBP for the H-DE	29
* Thesis	17
Total	2528

iii) Table of the publications having at least one of our 2528 titles (Table III):

Kind of publication	Quantity
* Scientific journals	263
* Books which include a chapter or some sections related to M-FBP for the H-DE	58
* Collections	24
* Technical reports	24
* Proceedings of symposia not specifically on M-FBP but which include at least 3 papers on M-FBP for the H-DE	18
* Proceedings of conferences on M-FBP for the H-DE	11
* Books on M-FBP for the H-DE	8
Total	406

iv) English, French, Italian, Portuguese and Spanish are the scientific languages better known by the author. This may have affected the selection of references. Original references in Russian are not, in general, included in this work (See point (vi) in Note 4)

The 2528 titles of our bibliography have been written in the following languages (Table IV) :

	Number of titles written in	there exists translation in English
English	2046	
Russian	182	179
French	86	3
Spanish	83	12
German	55	
Italian	45	1
Japanese	17	15
Portuguese	10	2
Rumanian	2	
Polish	2	1
Total	2528	213

We remark that almost the 90% of our bibliography is available in the English language (2046 + 213 = 2259 titles).

v) The 20 physical-engineering scientific journals which have published a substantial number of titles are (Table V) :

Scientific journal(Abbreviation)	Number of titles published in the present bibliography
Int.J.Heat Mass Transfer	231
J.Heat Transfer	174
Heat Transfer-Soviet Research	35
Chem.Eng.Sci.	32
Int.Comm.Heat Mass Transfer (Letters Heat Mass Transfer)	30
Soviet Phys.Dokl.	28
Int.J.Numer.Meth.Eng.	26
J.Crystal Growth	25
Metall.Trans.	25
AIAA Journal	18
AICh.E Journal	16
J.Appl.Physics	16
Trans.Metall.Soc.AIME	16
Comp.Meth.Appl.Eng.	14
J.Comp.Physics	14
J.Appl.Mech.	13
Nuclear Sci.Eng.	13
Int.J.Eng.Sci.	13
Latin Amer.J.Heat Mass Transfer	13
Physica	11 (*)
Total	753

They have published 42% of the 1798 titles that appeared on scientific journals. We remark that 10 titles (of the 11 (*)) published on Physica are due to the edition of a Symposium (Vol. 12D (1984)).

vi) The 20 mathematical scientific journals which have published a substantial number of titles are (Table VI) :

Scientific journal(Abbreviation)	Number of titles published in the present bibliography
Quart.Appl.Math.	45
IMA J.Appl.Math.(J.Inst.Math. Appl.)	44
USSR Comput.Maths.Math.Phys.	36
Nonlinear Anal.Th.Meth.Appl.	30
Boll.Un.Mat.Italiana	29
Soviet Math.Dokl.	28
Control Cybernetics	26 (**)
Arch.Rat.Mech.Anal.	25
Annali Mat.Pura Appl.	24
Indiana Univ.Math.J.(J.Math. Mech.)	24
J.Diff.Eq.	24
J.Math.Anal.Appl.	23
Quart.J.Mech.Appl.Math.	20
SIAM J.Math.Anal.	20
Trans.Amer.Math.Soc.	20
SIAM J.Appl.Math.(J.SIAM)	19
ZAMM	19
SIAM J.Numer.Anal.	15
C.R.Acad.Sc.Paris	14
J.Appl.Math.Mech.	13
Total	498

They have published 28% of the 1798 titles that appeared on scientific journals. We remark that 15 titles (of the 26 (**)) published on Control and Cybernetics are due to the edition of a Conference (Vol. 14, No. 1-3 (1985)).

vii) The collections which have published a substantial number of titles are (Table VII) :

Name of the collection	Number of titles published in the present bibliography
Research Notes in Math.	80
Int.Series Numer.Math.(ISNM)	36
CUADERNOS Inst.Mat."B.Levi", (Rosario)	17
A.I.Ch.E.Symp.Series	15
Lecture Notes in Math.	12
Lecture Notes in control and Inf.Sci.	9
Progress in Heat and Mass Trans.	7
Seminario CAMAT (Santa Fe)	5
Advances in Heat Transfer	4
Conferenze Sem.Mat.Univ.Bari	3
Chem.Eng.Progr.Symp.Series	3
Bull.IMA (Oxford)	3
Bull.Liaison INRIA (Rocquencourt)	3
Total	197

They have published 94% of the 208 titles that appeared on the collections.

We remark that the volumes published in the collection Res. Notes in Math. (Pitman) were not counted here (See Table IX); the number 80 refers to the papers contained in the 4 volumes : Res. Notes in Math. No. 79,80,120,121.

viii) The technical reports including a substantial number of titles are (Table VIII) (We remark that the technical reports published in a scientific journal, proceeding or collection, etc. were not considered here) :

Technical reports	Number of titles published in the present bibliography
Math.Res.Center, Univ. Winsconsin	23
Ist.Anal.Numer., Pavia	21
Freie Univ. Berlin	20
ORNL, Oak Ridge	13
INRIA, Rocquencourt	10
CNEA, Buenos Aires	9
ICTP, Trieste	7
Inst.Arg.Matem., Buenos Aires	4
Ist.Matem."U.Dini", Univ.Firenze	3
Math.Inst., Univ.Augsburg	3
Dept.Math., Univ.Paris XI, Orsay	3
Total	114

They have published 88% of 130 titles that appeared as a technical report.

ix) There are 95 titles in our bibliography (66 books and 29 proceedings) which have been published by a Publisher. Among them, we may cite (Table IX):

Publisher	Number of tiles (books and proceeding)
Academic Press	10
J. Wiley	10
Pitman	8
McGraw Hill	7
Clarendon Press	6
Dunod-Gauthier Villars	5
Springer Verlag	5
Birkhauser Verlag	4
Pergamon Press	4
Total	59

They include the 62% of the 95 titles which were published by a Publisher.

NOTE 4

Some abbreviations and conventions has been used, e.g. :

i) The bibliography is arranged alphabetically by the first author. A prefix is treated as part of the name so that e.g. Van Duyn is listed under V and not under D. Names beginning with, e.g., Mac, Mc and Di are listed under MAC, MC and DI respectively.

ii) In general, the source of information (authors, titles, references, etc.) is indicated.

iii) When a non-English paper has an English translation, we quote, in general, the English version.

iv) Abbreviations of names of journals are those used in the current literature whenever they are available.

v) We have only considered as the year of the publication the one appearing in the source reference and not the year of the conference or journal'reception. Moreover, when the publication year is indicated e.g. (1980/81) it was considered like (1980). This is criterion followed in preparing Table I.

vi) Important: Russian (in general, non-western languages) literature on this field (whith has not been translated to the English language) will be introduced in forthcoming issues.

NOTE 5

For the search of bibliography many scientific libraries were consulted during 1977-87; Among them, I must mention the following:

i) Hemeroteca del Instituto de Matemática "Beppo Levi", Univ. Nac. de Rosario, Rosario (Argentina).

ii) Biblioteca dell'Istituto di Matematica "Ulisse Dini", Univ. di Firenze, Firenze (Italy).

iii) Bibliothèque de Mathématiques Recherche, Univ. de Paris VI, Paris (France).

iv) Centre de documentation de l'INRIA, Rocquencourt (France).

v) Bibliothèque de Physique Recherche, Univ. de Paris VI, Paris (France).

vi) Hemeroteca del CERIDE, Santa Fe (Argentina).

vii) Biblioteca do IMPA e do LNCC, Rio de Janeiro (Brazil).

viii) Hemeroteca del Departamento de Matemática, de Física y del IAM, Buenos Aires (Argentina).

ix) Bibliothèques de Mécanique Théorique, d'Analyse Numérique et de Chimie Recherche, Univ. de Paris VI, Paris (France).

x) Library of ICTP, Trieste (Italy).

NOTE 6

Undoubtedly, I am responsible for the mistakes and omissions that might have slipped in the text. For these I apologize. I would welcome information about them so that they could be corrected in a possible future edition.

I would greatly appreciate and would like to receive reprints, technical reports, proceeding, thesis, preprints or even references or photocopies of articles on M-FBP which have not been included in this bibliography and also some hints for new research. These could be incorporated in a future edition.

It is my hope that this bibliography will reduce the duplication of effort and stimulate the cross-fertilization of ideas among the different and numerous disciplines concerned with M-FBP.

Finally, I also hope that this long bibliography will be

useful to researchers in moving and free boundary problems for the heat-diffusion equation.

NOTE 7 (Service to the International Scientific Community)

I have a copy of all the references mentioned in the present bibliography. Any person who for any reason has not been able to find any of the references could ask for a copy by sending the necessary money (e.g. in coupon-réponse International of the Universal Postal Union) to cover the corresponding costs of photocopies and air mail.

Moreover, reprints of my paper (1981) are still available; Anyone who would like to have a copy can ask for it.

Acknowledgements:

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Finally, I am grateful to the great number of people (researchers, librarians, etc.) and Institutions that have silently contributed to this work.

I dedicate this work to Norma and my sons María Silvina and Pablo Alberto.

Domingo Alberto Tarzia
Florence, June 1987

REFERENCES

We include now the references in the following way:

* Books or booklets exclusively devoted to the subject (with 8 titles).

* Thesis on the subject (with 17 titles).

* Books that devote several chapters or sections to the subject (with 60 titles).

* Editors of conferences, meetings or seminars completely devoted to the subject (with 11 titles).

* Papers published on conferences, meetings or seminars completely devoted to the subject (with 192 titles).

* Editors of a simposium not specifically on the subject but which includes at least three papers on the subject (with 18 titles).

* Papers published on a symposium not specifically on the subject but which includes at least three papers on the subject (with 108 titles).

* Papers on the subject published in a symposium not considered before (with 170 titles).

* Papers on the subject published on scientific journal or some collections (with 1821 titles).

* Papers on the subject to appear on scientific journal (with 12 titles).

* Technical reports on the subject (with 111 titles).

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