



UNIVERSITATEA "BABEŞ BOLYAI"
CLUJ-NAPOCA
RECTORATUL

6917 / 9.12.2005

ROMÂNIA

UNIVERSITATEA BABEŞ-BOLYAI CLUJ-NAPOCA

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Rectorat

*Prin aceasta am
scut revenirea la
Comisia de Etică
a UBB dar nu s-a dat nros creru
mele.*

Nr. 00.345/2.dec.2005

Domnului Profesor Ioan Pop
Facultatea de Matematică și Informatică
Catedra de Mecanică și Astronomie

Stimate Domnule Profesor,

Urmare sesizării Rectoratului, Comisia de Etică a Universității Babeş-Bolyai vă invită la o audiere Miercuri, 07.12.2005 în sala de ședințe a Consiliului de Administrație.

Vă înaintăm atașat o copie a sesizării primite din partea Rectoratului.

Secretar
Cosmina Suci



ROMÂNIA
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Nr. 16.156/30.11.2005

Către

Comisia de etică a Senatului Universităţii Babeş – Bolyai

Rectoratul Universităţii Babeş – Bolyai vă solicită prin prezenta analizarea situaţiei domnului profesor consultant Pop Ioan de la Facultatea de Matematică şi Informatică.

Prin acţiunile desfăşurate în ultima perioadă de d-l profesor Pop, Universitatea a suferit grave prejudicii de imagine, cu consecinţe greu de evaluat pe termen mediu.

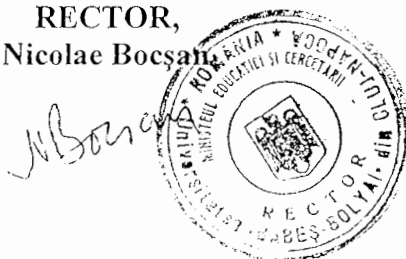
Dintre aceste acţiuni menţionăm:

1. adresarea unor mesaje calomnioase directorului unei prestigioase edituri europene, pentru simplul motiv că a acceptat publicarea unei cărţi având ca autori cadre didactice din Universitate neagreate de domnul profesor Pop. De acelaşi tratament au avut parte şi alţi specialişti de prestigiu din universităţi europene, care au publicat recenzii favorabile pe marginea cărţii respective a se vedea (fila 1-20 din dosarul anexat).
2. în recente luări de poziţie publice, d-l Pop a dezlănţuit un atac la adresa colegilor de la linia maghiară şi germană, acuzându-i pe aceştia de persecuţii împotriva liniei române, fără nici o bază factuală, şi solicitând separarea lor în cadrul Universităţii (fila 20-21).
3. d-l Pop nu înţelege să pună capăt campaniei de continuă calomnie derulată împotriva unor colegi de catedră (Pop Vasile, Petrila Titus etc.) pe care îi acuză de apartenenţă la structurile fostei poliţii politice, fals, uz de fals, plagiat, trafic de influenţă etc., în profida concluziilor tuturor verificărilor efectuate şi care au infirmat aceste acuzaţii. (fila 23 şi următoarele).

Toate aceste acţiuni sunt, în opinia Rectoratului, incompatibile cu statutul de profesor consultant al Universităţii Babeş-Bolyai.

De aceea, vă rugăm să analizaţi, cu respectarea procedurilor legale în materie, oportunitatea retragerii de către Senat a titlului de profesor consultant conferit în anul 2004 domnului profesor Pop Ioan.

RECTOR,
Nicolae Bocsan





ROMÂNIA
MINISTERUL EDUCAȚIEI ȘI CERCETĂRII
UNIVERSITATEA BABEȘ-BOLYAI CLUJ-NAPOCA

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RECTORATUL

Nr. 20. 364/20.12.2005

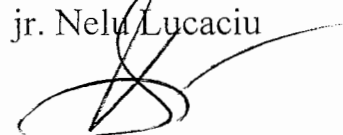
Extras din
Procesul verbal al ședinței Senatului
din 19 decembrie 2005

.....
La pct. 1, Diverse, al Ordinii de zi, referitor la propunerea Comisiei de etică a Senatului Universității Babeș-Bolyai privind retragerea titlului de profesor consultant profesorului Pop Ioan de la Facultatea de Matematică și Informatică, **Senatul aprobă, cu 85 de voturi pentru, 1 vot împotrivă și 0 abțineri, retragerea titlului de profesor consultant profesorului Pop Ioan de la Facultatea de Matematică și Informatică.**
.....

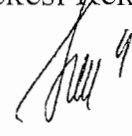
Canțelar general,
Conf. univ. dr. Florin Streteanu



Oficiul juridic,
jr. Nelu Lucaciu



Secretar gen. adj.,
Békési Réka



Copii: Ratiu M.

Fac. Matematică

prof. Pop - Fac. Matematică

Békési Réka



Mihai Pelin

— DIE —

1955-1980

Culisele

Spionajului

românesc

evenimentul românesc

1997

Securitatea l-a plasat la URSS în anul 1965.

retrimis la Washington și, o vreme, nu s-a întâmplat nimic suspect. Totuși, un alt agent din legătura sa, într-o bună zi, l-a avertizat că a fost interogat în detaliu de FBI. Și i-a cerut colonelului să-l lase în pace. Cu asta, cariera americană a ghinionistului ofițer Mircea Ciobănică s-a încheiat.

La 15 iunie 1975, dezertase și căpitanul Virgil Tipănuț, împreună cu soția și copiii, la Oslo, Avea 41 de ani și era ofițer deplin conspirat în cadrul Ministerului Comerțului Exterior și al Cooperării Economice Internaționale. Lucrase cândva în centrala Direcției de Informații Externe, sub ordinele nemijlocite ale lui Ion Mihai Pacepa, dar fusese trecut în rezervă, ca necorespunzător pentru activitatea de spionaj. În ciuda acestui fapt, din motive necunoscute, Ion Mihai Pacepa îl reactivase, în calitate de colaborator. În iulie 1975, când defecțiunea de la Oslo era un fapt împlinit, în prezența lui Gheorghe Bolănuș și a lui Teodor Sârbu, Ion Mihai Pacepa i-a cerut colonelului Ion Bota toate documentele referitoare la dezertarea lui Virgil Tipănuț. Mai târziu, Teodor Sârbu își va aminti că printre actele respective a văzut și o fotografie în care Virgil Tipănuț și Ion Mihai Pacepa erau surprinși împreună, în capitala Norvegiei.⁸⁶

Virgil Tipănuț a fost condamnat în contumacie la șase ani închisoare și grațiat în anul următor, 1976. Deci și această afacere a fost mușamalizată. Documentele privind evoluția dezertorului în străinătate au fost ținute permanent sub cheie de Ion Mihai Pacepa. Acesta a predat unele materiale colonelului Cornel Rizu abia în februarie 1978, când nu mai puteau folosi la nimic. Unele documente lasă să se înțeleagă faptul că s-ar fi încercat răpirea și aducerea lui Virgil Tipănuț în țară, însă acțiunea ar fi fost ratată, prin târăgănare. Ca urmare a defecțiunii lui Virgil Tipănuț, care, în 1975, colaborase cu Ion Mihai Pacepa și în afacerea Fokker, a căzut și colaboratorul Petrilă. Din analiza cazului, a rezultat concluzia cea mai comodă: Virgil Tipănuț fusese atras la colaborare de serviciile speciale occidentale.

La 20 ianuarie 1976, a dezertat și plutonierul Dumitru Sârbu. Avea 30 de ani și era portar la Ambasada română de la Washington. La 11 februarie 1976, a fost condamnat în contumacie la șapte ani închisoare. Dacă nu ar fi plecat cu cheile ambasadei i s-ar fi dat, probabil, doar șase ani. Altfel spus, și acest caz a fost mușamalizat de conducerea Direcției de Informații Externe. Conform unei mărturii din 1978 a generalului Gheorghe Toader, ar mai fi dezertat și un alt portar, de la reprezentanța din New York, pe care nu l-am găsit nominalizat în documentele cercetate. Ambii erau trimiși la post de Divizia a 3-a, V 3.

În sfârșit, în 1977 a dezertat la Atena Vladimir Cincă, delegat al firmei Electronum în Grecia. Din documente nu rezultă că ar fi fost ofițer al Direcției de Informații Externe, dar, fiind evocat într-un raport al generalului Teodor Sârbu, este de presupus că a fost cel puțin colaborator.

Mai ales penultima defecțiune la care ne referim a avut un efect care merită a fi consemnat. În februarie 1976, prin generalul Adrian Bărbulescu, Nicolae Doicaru a solicitat Brigăzii F, spre a le studia personal, fișele contrainformative ale tuturor ofițerilor și subofițerilor aflați la post în străinătate. Peste două luni, în aprilie, când a fost numit inspector al unității F/CI, maiorul Nicolae Panait a constatat că din cartoteci mai lipseau încă fișele respective, care reprezentau, de fapt, tocmai obiectul muncii lui. Insistența de a le recupera de la Nicolae Doicaru s-a izbit de incontinente târăgănări. Ceea ce nu știa Nicolae Panait era că fișele se aflau demult la Ion Mihai Pacepa.

În primele săptămâni ale anului 1977, maiorul Nicolae Panait din serviciul de inspecții al Brigăzii F, care tot încerca să recupereze fișele contrainformative ale ofițerilor răspândiți în lumea întreagă, a fost avertizat de Nicolae Doicaru să nu se mai ocupe de această problemă. Fișele în discuție nu au mai fost restituite Brigăzii F nici după debarcarea lui Nicolae Doicaru și numirea lui în funcția de ministru al turismului. Iar după dezertarea generalului Ion Mihai Pacepa s-a constatat că dispăruseră fără urme.

→ Colaborator și redenie și cu costul
său al securității deținerii din anul
1970/1980, generalul Ioana, care este
nazul de răzătoare a lui Petrilă Tituș

Obiectivele specifice ale proiectului

DOTAREA CU TEHNICA DE CALCUL SI SOFT LICENTIIAT

ORGANIZAREA EFECTIVA A INSTRUIRII CURSANTILOR PENTRU
COMUNICARE-DOCUMENTARE PRIN INTERNET

DOCUMENTARI SI PARTICIPARI LA CONFERINTE INTERNE SI EXTERNE DE
PROFIL

ORGANIZAREA INSTRUIRII COMPUTATIONALE DE BAZA A CURSANTILOR
PRIN CURSURI, SEMINARIILE DESCHISE SI LABORATOARE APLICATIVE
DIRIJATE

Inchide fereastra

Echipei proiectului

Nume	Grad Didactic	Universitate
AGACHI PAUL SERBAN	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA
DIUDEA MIRCEA	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA
KASA ZOLTAN	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA
PETRILA TITUS HORIA	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA
SALAGEAN GRIGORE STEFAN	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA
SILAGHI IOAN	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA
SIMON SIMION	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA
TARBA CORNEL	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA
TRIF DAMIAN	PROFESOR	U. BABES - BOLYAI CLUJ-NAPOCA

Inchide fereastra

Universitatea "Babes-Bolyai" Cluj-Napoca

<

Stiintele Naturii Computationale si Studii Interdisciplinare

- material transmis in iunie 2002 -

Director de proiect: **prof. dr Titus Petrila**
PROIECT BM - CNFIS 213 / Runda 3

Misiune si obiective strategice

Lansarea unei activitati de formare permanenta interdisciplinara si computationala.
Reforma a directiilor de specializare prin doctorat.
Crearea unui nucleu de pregatire computationala si interdisciplinara care se va transforma intr-un centru de formare permanenta interdisciplinara si computationala postuniversitara deschis licentiatilor implicati in doctorat sau masterat, cercetatori sau specialisti din si din afara Universitatii.

Surse de finantare utilizate in initierea si dezvoltarea programului

Banca Mondiala si Guvernul Romaniei, prin grant.

Rezultate semnificative obtinute in urma finantarii prin Grant CNFIS

- Semnarea unui acord de colaborare intre UBB si Univ. Tehnica din Sydney (Australia) ce prevede schimb de profesori, cercetatori si studenti in domenii interdisciplinare cu accent deosebit pe probleme de mediu si de stiinta materialelor. Universitatea a primit vizita de evaluare a prof. Peter Fritz. Prof. T. Petrila a participat la Scoala de Vara Xemax (Mexic) dedicata problemelor de hemodinamica si ape reziduale, prof. D. Trif a efectuat o vizita de documentare in directia computationalitatii si interdisciplinaritatii la Univ. Columbus (Ohio), procurand un semnificativ material bibliografic. S-a desfasurat vizita prof. T. Petrila la Univ. Ballarat (Australia) pentru a colabora cu colegi australieni in directia modelarii matematice si abordarii computationale a miscarii apelor poluate, ale prof. G. Salagean si **D. Trif in USA** in incercarea de a realiza contacte cu universitatile americane in domeniul interdisciplinaritatii. Drd. T. Ioana a participat la Conferinta Internationala FBP 2002 Trento (Italia), dedicata problemelor cu suprafata libera.
- S-au realizat contacte cu centre de interdisciplinaritate ale Univ. din Bangkok, Singapore, Melbourne, Auckland.
- S-a creat o baza materiala adecvata (retea de calculatoare, imprimante, copiatoare, videoprojector etc.). Suntem in negocieri pentru procurarea unor softuri specifice.
- S-au realizat activitati complexe (expuneri, laboratoare, discutii libere) de pregatire informatica, de matematici numerice, probleme de modelare matematica in fizica, chimie, biologie, mediu la care au participat peste 100 de doctoranzi, masteranzi si alti tineri cercetatori:
 - Diferente finite
 - Calcul simbolic
 - Metode numerice pentru ecuatii si sisteme
 - Algebra liniara numerica
 - Comunicare prin internet
 - Birotica
 - Legi constitutive pentru materiale continue
 - Teoria elasticitatii
 - **Fizica computationala**
 - Chimie computationala
 - Biologie computationala
 - Medii continue
 - Mecanica fluidelor computationala
 - Metode statistice in stiintele naturii
 - Modele matematice in stiintele naturii
 - Dinamica fluidelor vascoase incompresibile
 - Dinamica fluidelor ideale
 - Modele pentru descrierea evolutiei marimilor fizice de interes in stiinta mediului.
- pentru activitatile de mai sus s-a elaborat material documentar sub forma de exemplare pilot care pot fi multiplicata la cerere, de asemenea **s-a elaborat o carte- manual de Metode numerice si computationale in dinamica fluidelor(T. Petrila, D. Trif).**

Perspective de continuare si/sau dezvoltare a programului

La Universitate exista deja un doctorand in interdisciplinaritate in cotelata axat pe studii de hemodinamica, aflat in faza de colectare si organizare a materialului bibliografic. S-a inaugurat si dotat Laboratorul de Training Multidisciplinar in cadrul Departamentului de Stiinte ale Naturii Experimentale (director prof. S. Simon, membru si in conducerea programului nostru). Acesta ca unitate permanenta a Univ. va prelua tehnica si materialele publicate functionand si dupa incheierea grantului. Din anul universitar 2002-2003 doctoranzii cu frecventa vor audia cursuri de specialitate organizate la nivelul Univ. Desi inca nu se prevad cursuri cu caracter interdisciplinar este pregatita baza materiala, documentara si umana pentru o astfel de extindere in viitorul apropiat.

Scopul si utilitatea programului (legătura cu piata muncii)

A crescut valoarea rezultatelor cercetarilor in cadrul doctoratelor, au aparut doctoranzi ce pregatesc teze de actualitate, cu caracter interdisciplinar, cu orientare practica. Specialistii astfel formati vor fi solicitati de toate segmentele implicate in re tehnologizarea de varf a societatii romanesti. Acestia, la randul lor, la viitoarele lor locuri de munca vor contribui la instruirea interdisciplinara a altor angajati, la adaptarea lor la nevoile economiei de piata.

Adresa:	Persoana de contact:
Cluj-Napoca	Prof. T. Petrila
	E-mail: tpetrila@cs.ubbcluj.ro
	URL:

[Inapoi](#)



MINISTERUL
EDUCATIEI,
CERCETARII SI
TINERETULUI



BANC
INTERNATIONAL
PENTRU
RECONSTRUCIE
SI
DEZVOLTARE

Vineri, 13 Ianuarie 2006

Harta paginii

C

- Componenta I
- Componenta II

[Pagina de start](#) > [Componenta II](#) > [Programe de educatie permanenta](#) > [Comisia 1](#) > [Detalii proiect](#)

U. BABES - BOLYAI CLUJ-NAPOCA

Universitar

STIINTE ALE NATURII COMPUTATIONALE SI STUDII INTERDISCIPLINARE

Colegii

Educatie Permanenta

DIRECTOR PROIECT

SUMA ALOCATA (USD)

- Componenta III
- Baza materiala

PETRILA TITUS HORIA

60958

Rezultate specifice

Descrierea proiectului:

PROGRAMUL A INITIAT O ACTIVITATE DE FORMARE PERMANENTA INTERDISCIPLINARA SI COMPUTATIONALA, LANSAND, DE ASEMENEA, O NOUA ABORDARE IN PROGRAMELE DOCTORALE SI DE MASTERAT. CENTRUL DE EDUCATIE PERMANENTA DEZVOLTAT PRIN ACEST PROGRAM ARE IN DOTARE O RETEA PERFORMANTA DE CALCULATOARE, LOGISTICA SI SOFTURILE LICENTIASTE NECESARE. OBIECTIVUL MAJOR A FOST ORGANIZAREA UNUI SISTEM FUNDAMENTAL DE INSTRUIRE A STUDENTILOR PRIN CURSURI SI PROIECTE APLICATIVE. ADRESA DE CONTACT: PROF. TITUS PETRILA, E-MAIL: TPETRILA@CS.UBBCLUJ.RO

Documentatie

Forum

Cautare



Date de contact:

E-mail: tpetrila@cs.ubbcluj.ro

Pagina web: -

Telefon: 0264-405300, 405301, 405302, 405322



Obiective

Echipa

Institutii partenerere

Baza ma

Laborat
Echipam
specialita
Software
Carti/Re

Rezultat

Linii de i
Software
Multimec
Carti/Re
Articole

Proiect Banca Mondială - CNFIS - 60.958 USD !

Comments on the books:

T. Petrilă și D. Trif
Metode numerice și computaționale
în dinamica fluidelor. Ed. Digital Data
Cluj, 2002

T. Petrilă and D. Trif
Basic of fluids mechanics and
introduction to computational fluid
dynamics. Springer, Berlin, 2005
(Claude Brezinski, editor)

Corresponding pages from Romanian version to English version are
translated exactly word by word

Romanian	English
7 – 52; 53 – 64; 77 – 83; 364 – 367; 83 – 90; 367 – 372; 100 – 128; 129 – 178; 398 – 404; 437 – 441; 200 – 204; 210 – 214; 181 – 190; 210 – 214; 181 – 190; 356 – 359; 362 – 364; 394 – 398; 195 – 200; 228 – 235; 190 – 191; 423 – 427; 192 – 195; 215 – 225; 427 – 431; 225 – 228; 235 – 243; 243 – 245; 391 – 394; 245 – 247; 374 – 378; 381 – 383; 242 – 248; 373 – 374; 450 – 457; 249 – 272; 204 – 206; 281 – 286; 383 – 385; 275 – 281; 286 – 299; 320 – 327; 435 – 437; 300 – 320; 333 – 352; 458 – 464; 481 – 486;	1 – 50; 51 – 70; 71 – 76; 77 – 79; 79 – 86; 87 – 99; 100 – 132; 133 – 186; 178 – 191; 191 – 195; 197 – 202; 203 – 206; 207 – 216; 203 – 206; 207 – 216; 216 – 219; 219 – 221; 221 – 225; 226 – 231; 231 – 246; 247 – 249; 249 – 253; 253 – 257; 257 – 268; 268 – 272; 272 – 277; 277 – 285; 285 – 287; 288 – 295; 295 – 297; 298 – 301; 302 – 304; 304 – 305; 306 – 307; 312 – 320; 320 – 344; 345 – 348; 349 – 354; 354 – 356; 356 – 363; 363 – 380; 380 – 389; 389 – 390; 411 – 438; 439 – 472; 472 – 482; 482 – 486;

In fact, the Romanian version: Metode numerice și computaționale în dinamica fluidelor, has not been **mentioned (cited)** in the English version of the book! Why the authors have **hidden** the publication of the Romanian version of their book ?

Other comments on the English version of the book:

1. Figure 2.6 on page 79 concerning the pressure distribution around the airfoil is **wrong** because $c_p = 1$ only when $U = V$ and not for $x \approx -0.2$.
2. Prandtl-Mayer (Simple wave) Flow on pages 115 – 117 is very **simple and inexactly** treated as compared with that described in the book by J.H. Spurk (1999). The authors have taken this theory from the book of Caius Iacob (1959), which is a very old book. In fact, Fig. 2.9 on page 117 is **incomplete**; the polar coordinates (r, θ) are not shown.
3. The authors **do not know** the classical notations for Reynolds number, Re, Strouhal number, St, etc., given on page 160.
4. The assumption made by the authors on page 161 that “the variation of the temperature and of concentration do not influence the viscosity” for the Navier-Stokes equations in the vectorial form and with the buoyancy term included in these equations is **completely wrong**. This variation is because the origin of the buoyancy forces is due to the variation of density with temperature (Boussinesq approximation), see A. Bejan, Convective Heat Transfer (2nd edition), Wiley, New York, 1995.

5. The second non-dimensional equation on page 160 is **wrong**.
6. The classical definition of the Schmidt number Sc and the Prandtl number Pr is $Sc = \nu / D$ and $Pr = \nu / \alpha$ but they are **wrong** defined in this book on the page 162.
7. The boundary layer equations, pages. 174 – 179 are very **superficially and confused** presented in comparison with the exact theory described in the recent book by Schlichting and Gersten (2000).
8. Page 177: “inverse flow” is **wrong** defined. It should be defined as “reverse flow”.
9. The definition of the Reynolds number on the page 178 as $R_x = v_x / \nu$ is **wrong**. The correct definition of Re_x is $Re_x = U x / \nu$.
10. The example on pages 187 – 191 for the Blasius problem is completely **wrong**. This is because the variable η is $\eta = \eta_\infty = 5$ on page 179 and $\eta = \eta_\infty = 10$ on page 188. However, the correct value of $\eta = \eta_\infty$ is $\eta = \eta_\infty = 3.6$ in the book by Schlichting (1968, 6th edition).
11. All figures 3.7, 3.9, 3.10 and 3.11 on pages 193-195 are **wrong**. The affirmation “two neighbor layers” is **wrong**. How many boundary layers exist in this problem ?
12. The example on pages 216 – 219 is fundamentally **wrong**. In fact, this example is taken from the book by Chow (1979) without mentioning it. The origin of Eqs. (4.7), ballistic problem, on page 219 is not explained. In addition, Fig. 4.4 is **wrong** because Eqs. (4.7) are numerically integrated without mentioning any boundary (initial) conditions. Figure 4.4: *The motion of a projectile* is **wrong**.
13. Burgers’ equation on pages. 231 – 236 is treated in a better way in P. Brădeanu, I. Pop and D. Bradeanu (1979).
14. γ in Eq. (4.20) on page 237 is not defined.
15. Equation

$$\frac{\partial u}{\partial t} = -\frac{1}{\rho} \frac{dp}{dx} + \nu \frac{\partial^2 u}{\partial t^2}$$

- on page 275 is completely **wrong**.
16. Figure 5.14 on page 300 is **incomplete**. In fact, the Caption of this figure should be: *Flow past an elliptical obstacle placed in a channel of variable cross section* if this is the problem that the authors wish to study.
 17. Discussion of the transonic flow on page 307 is **incomplete**. For $\Phi_x \sim K / (\gamma + 1)$ the sign of the last equation on page 307 is also affected by its first term and it leads to a separate very interesting discussion of the physics of this problem, see Spurk (1997) page 393.
 18. Figure 5.18 on page 311 is **doubtful**.
 19. Stokes problem on pages. 312 – 313 is taken from the books by Chow (1979) and Pozrikidis (1997).
 20. Figure 5.22 on page 320 “we obtain the velocities field” is **wrong**.
 21. Figures 5.27 and 5.28 on pages 342 are **wrong**. What kind of channel is it: flat or wavy ?
 22. It is strongly required nowadays that all numerical results should be compared with existing results from the open literature in order to guarantee the accuracy of these results. This is not, unfortunately, done by the authors of this book so that the confidence in the results reported and included here is **very much questionable !**
 23. The necessary figures for clarity, perspicuity and understanding of the basic notions of fluid mechanics are completely absent from this book (streamlines, pathlines, physical significance of the rate of deformation tensor, explanation of the circulation about an airfoil, vortex-tube, Couette flow and Poiseuille flow, meaning of the stream function in plane flow, boundary layer coordinates, geometry of the boundary layer on a flat plate (Blasius problem), volume element in the curvilinear coordinate system, etc., etc.) are **completely absent** from this book.
 24. There are also quite many printing mistakes in the book, *tri* dimensional on page 159, etc.

25. There are no exercises for the students.
26. The references included into the book are rather old and the modern ones were almost omitted. Therefore, this book does not help young researchers to join the science of fluid mechanics without mentioning some excellent books published very recently.
27. Everything included into this book can be found better described and more understandable in the many existing books of fluid mechanics, numerical analysis and computational fluid dynamics, which were not mentioned (cited) by the authors of this book, particularly the following ones:

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In fact, Carsten Cartensen has mentioned in his review 1 919 332 65N38 (Mathematical Review 2003) on a paper by Petrița Titus that “There is neither a proof nor a numerical example in the paper, which seems to **ignore the literature** on boundary integral equations”. Also, Hendrik Kuhlman (Wien) in his recent review of this book published in Zentralblatt MATH, Zbl 1071.76001, 2005, has written: “The title of the book **approximately reflects its content**. ... Owing to the wide scope, the present book must necessarily be limited to an introduction and an overview. ... 161 references are provided as sources or for further study, quite a number of them in Romanian”.

Overall, this book’s strength is **only in its collection of mathematical formulas** having only just a little in common with the teaching and modern research in fluid mechanics. My major concern about the book is also in its physics. Thus, it is, in my opinion, **impossible** to set up experimentally flows described in this book. The simplest criterion to keep in mind for any researcher in fluid mechanics is that figures in a paper or a book should try to explain everything physical rather than the figures illustrating something mathematical as it is the case in this book. Therefore, the present book is only of a very limited academic interest. This lead me to my significant reservation, namely, if a book is to be of academic interest, then new ideas should be presented in it. I did not see it in this book !

In support of the comments made above, I will present below just two examples but there are lots **wrong** described topics in this book.

Example 1) **Problemă de student anul I !!**

Page 341: “If we wish to study, for example, the inviscid, incompressible fluid flow, through a channel of variable section (**wrong** formulation: variable cross section), we choose the grid points on the boundary of the channel and we will transform this channel into the computing domain $(\xi, \eta) \in [0, a] \times [0, b]$, which may be covered by a uniform grid with step size h ”. ... In order to study the flow, we start from the streamlines (**wrong** word: stream function) equation

$$\psi_{xx} + \psi_{yy} = 0!! \quad (1)$$

which on using the transformation

$$\xi = x, \quad \eta = \frac{y}{f(x)} \quad (2)$$

becomes

$$a \psi_{\xi\xi} - 2b \psi_{\xi\eta} + c \psi_{\eta\eta} = 0!! \quad (3)$$

where a, b, c are still calculated as above, on page 340”.

In fact, Eq. (3) is **completely wrong** ! This can be shown very easily as follows. We successively have

$$\frac{\partial}{\partial x} = \frac{\partial}{\partial \xi} \frac{\partial \xi}{\partial x} + \frac{\partial}{\partial \eta} \frac{\partial \eta}{\partial x}, \quad \frac{\partial}{\partial y} = \frac{\partial}{\partial \xi} \frac{\partial \xi}{\partial y} + \frac{\partial}{\partial \eta} \frac{\partial \eta}{\partial y} \quad (4)$$

On the other hand, from (2), we get

$$\frac{\partial \xi}{\partial x} = 1, \quad \frac{\partial \xi}{\partial y} = 0, \quad \frac{\partial \eta}{\partial x} = -\frac{f_\xi}{f^2} y = -\frac{f_\xi}{f} \eta, \quad \frac{\partial \eta}{\partial y} = \frac{1}{f} \frac{\partial}{\partial \eta} \quad (5)$$

with the notation $d f / d \xi = f_\xi$. Thus, relations (4) become

$$\frac{\partial}{\partial x} = \frac{\partial}{\partial \xi} - \frac{f_\xi}{f} \eta \frac{\partial}{\partial \eta}, \quad \frac{\partial}{\partial y} = \frac{1}{f} \frac{\partial}{\partial \eta} \quad (6)$$

Further, from (6), we have

$$\begin{aligned} \frac{\partial^2}{\partial x^2} &= \frac{\partial^2}{\partial \xi^2} \frac{\partial \xi}{\partial x} + \frac{\partial^2}{\partial \xi \partial \eta} \frac{\partial \eta}{\partial x} - \frac{f_{\xi\xi}}{f} \eta \frac{\partial}{\partial \eta} + \frac{f_\xi^2}{f^2} \eta \frac{\partial}{\partial \eta} - \frac{f_\xi}{f} \frac{\partial \eta}{\partial x} \frac{\partial}{\partial \eta} \\ &\quad - \frac{f_\xi}{f} \eta \frac{\partial^2}{\partial \xi \partial \eta} \frac{\partial \xi}{\partial x} - \frac{f_\xi}{f} \eta \frac{\partial^2}{\partial \eta^2} \frac{\partial \eta}{\partial x} \\ \frac{\partial^2}{\partial y^2} &= \frac{1}{f} \frac{\partial^2}{\partial \xi \partial \eta} \frac{\partial \xi}{\partial y} + \frac{1}{f} \frac{\partial^2}{\partial \eta^2} \frac{\partial \eta}{\partial y} \end{aligned}$$

or, on using (5), we get

$$\frac{\partial^2}{\partial x^2} = \frac{\partial^2}{\partial \xi^2} - 2\eta \frac{f_\xi}{f} \frac{\partial^2}{\partial \xi \partial \eta} + \frac{f_\xi^2}{f^2} \eta \frac{\partial^2}{\partial \eta^2} + \frac{\eta}{f^2} (2f_\xi^2 - f f_\xi) \frac{\partial}{\partial \eta}$$

$$\frac{\partial^2}{\partial y^2} = \frac{1}{f^2} \frac{\partial^2}{\partial \eta^2} \quad (7)$$

Using now (7), Eq. (1) can be written as

$$\psi_{\xi\xi} - 2\eta \frac{f_\xi}{f} \psi_{\xi\eta} + \frac{1}{f^2} (1 + \eta^2 f_\xi^2) \psi_{\eta\eta} + \frac{\eta}{f^2} (2f_\xi^2 - f f_\xi) \psi_\eta = 0$$

or

$$A\psi_{\xi\xi} - 2B\psi_{\xi\eta} + C\psi_{\eta\eta} + D\psi_\eta = 0!! \quad (8)$$

where

$$A = 1, \quad B = \eta \frac{f_\xi}{f}, \quad C = \frac{1}{f^2} (1 + \eta^2 f_\xi^2), \quad D = \frac{\eta}{f^2} (2f_\xi^2 - f f_\xi)$$

It is easily seen, on comparing Eqs. (3) and (8), that Eq. (3) derived by Petrila and Trif in their book on page 341, differs by Eq. (8) with the last term, $D\psi_\eta$. Therefore, the problem described by Petrila and Trif in their book on pages 339 – 343 is **fundamentally wrong**.

Example 2) **Problemă elev clasa a - IX-a !!**

Page 216: *Falling of a Spherical Body*

“Let us consider a spherical body, of mass m ! and diameter d , located at $t = 0$ at the origin of the Oz axis, which is chosen in the direction of the gravitational acceleration. The initial velocity of the body is v_0' and it moves under the action of the gravitational force mg ! along the Oz axis. At the moment t the body is at the distance $z(t)$ from the origin and it has the velocity $v(t)$, all these functions satisfying the differential system

$$\frac{dz}{dt} = v(t)$$

$$\frac{dv}{dt} = \frac{1}{A} [B - C v |v| c_d(v)] \quad (4.6)$$

where $A = 1 + \bar{\rho}/2$, $B = (1 - \bar{\rho})g$, $C = 3\bar{\rho}/4d$ ”

In fact, according to the Newton's second law of theoretical mechanics, the motion of this spherical body is described by the equation

$$m \frac{dv}{dt} = mg$$

or

$$\frac{dv}{dt} = g$$

which is completely different by the second equation of (4.6). Therefore, the problem formulated by Petrila and Trif in their book on pages 216 – 219 is **fundamentally wrong**.

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