

WACŁAW OLSZAK was born on October 24th, 1902, at Karvina in Silesia. He graduated from the Vienna Technical University, Department of Civil Engineering, in 1925. In the years 1925-1927, he completed his post-graduate studies at the Faculty of Sciences at the Sorbonne University, Paris. In 1933, he obtained his doctor's degree at the Vienna Technical University, and the following year the degree of doctor of sciences in Warsaw, specializing in the theory of elasticity. In 1937, he was awarded the "venia legendi" at the Mining Academy in Cracow.

Wacław OLSZAK started his scientific activities in the early twenties, being mainly interested in structural problems and in the theory of elasticity. In the years 1945-46, he stayed in Belgium as a guest of the Brussels and Liège Universities, resuming his research work which had been interrupted by the war.

In 1946, he became Professor at the Mining Academy and the Technical University of Cracow, and since 1952 he has been Professor of the Technical University of Warsaw.

Professor OLSZAK was, in 1952, the organizer and afterwards the head of the Department of Mechanics of Continuous Media, attached to the Institute of Fundamental Engineering Research of the Polish Academy of Sciences. In the years 1963-1969, he was the Director of that Institute. During his tenure of office many scientific workers and students gathered round him, especially those doing research in the domains of the theory of elasticity, theory of plasticity, rheology, theory of structures, and the relevant experimental investigations. In the field of Mechanics, the Department soon became the most important and dynamic centre in Poland and attracted the attention of international scientific circles. At the same time Professor OLSZAK was very active in organizing the scientific life in Poland, especially in connection with the activities of the Polish Academy of Sciences.

Since 1950 he has been a member of the Warsaw Scientific Society. In 1954, he was elected a corresponding member and in 1956, a full member of the Polish Academy of Sciences. In the years 1957-1960, he was the Secretary of the Polish Academy's Department of Technical Sciences, and from 1964 until 1969 — the Chairman of the Academy's Committee of Mechanics and Physics of Continuous Media. In 1960, he was elected a member of the Presidium of the Polish Academy of Sciences. He is also one of the founders of the Polish Society of Theoretical and Applied Mechanics.

Professor OLSZAK's research work has been mainly concerned with the following problems:

- (1) theory of plasticity (especially in the domain of non-homogeneity and anisotropy); viscoplasticity; rheology;
- (2) theory of engineering structures.

The results of his research have been published in over 280 scientific and technical papers and in 10 monographs and textbooks, five of which have been translated into foreign languages.

In the analysis of plasticity problems, the Author has chosen a new approach aiming at establishing a general theory which takes into account the non-homogeneity of the material structure, associated with its anisotropy as well as its time-variable behaviour. This concept turned out to be very fruitful and resulted in the formulation of a general form of basic relationships reflecting a vast class of actual phenomena. Thus, solutions to numerous new problems could be found, many of them being of real importance for technical applications in civil, mechanical and aircraft engineering.

The formal analogy which exists between the theory of plasticity and the theory of granular media inspired the Author to take an interest in the analysis of limit states of non-homogeneous soils and their dynamic behaviour.

Many Polish scientists, especially his close co-workers and students forming the "Polish School of Plasticity", have adopted his ideas and extended his research. Also foreign scientists often resumed his concepts using them as a starting point for their own investigations.

Professor OLSZAK was the first in Poland to take up the problems of the theory of prestressed structures, the behaviour and load capacity of which are governed by irreversible and rheological phenomena. The results of his investigations in this field, presented in two monographs, have been introduced into current technical practice. He himself has applied them in his consulting activities and in the design of engineering structures, e.g., in bridge design (first and second prizes in competitions for bridge design: 1937 and 1953 in Warsaw, 1949 in Cracow).

He is also well known and recognized abroad. Numerous foreign universities and scientific institutions have invited him to deliver lectures and hold seminars. Thus he was a visiting professor in France (1959 and 1961), in the United States (1952 and 1959), in the Soviet Union (1963 and 1967), in the Scandinavian countries (1963), and in many other countries. In 1966, he was invited as an adviser to Kathmandu (Nepal) to set up the Faculty of Engineering Sciences at the Tribhuwan University.

Professor OLSZAK has frequently represented the Polish Science abroad. He has actively participated in 45 international scientific congresses, often as chairman and author of general reports. He was also entrusted with the chairmanship of two international congresses in Poland: in 1958, the IUTAM Symposium on "Non-homogeneity in Elasticity and Plasticity", and in 1963, the IASS Symposium on "Non-classical Shell Problems". He took part, as chairman or member, in the work of international scientific committees designated to prepare international congresses and symposia, such as "Rheology and Mechanics of Soils" in Grenoble (1964), "Irreversible Aspects of Continuum Mechanics" in Vienna (1966), "Theory of Thin Shells" in Copenhagen (1967), "Thermoinelasticity" in Glasgow (1968), etc.

He has also been involved in the activities of numerous international organizations. Recently (1969), he was appointed Rector of the International Centre for Mechanical Science (CISM) at Udine in Italy. He was co-founder (1947) and in the years 1962-1964 president of R.I.L.E.M. (Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions). He also was co-founder (1956) and vice-president (1956-1969) of I.A.S.S. (International Association for Shell Structures); he is a member of the Bureau of I.U.T.A.M. (International Union of Technical and Applied

Mechanics); since 1946 he has been a member of the Permanent Committee of I.A.B.S.E. (International Association for Bridge and Structural Engineering), co-founder (1955) and ever since a member of the Indian Society for Theoretical and Applied Mechanics, and member of other foreign scientific societies.

For many years W. OLSZAK has been actively engaged in editorial activities. He was a co-founder and in the years 1959–1969 the editor-in-chief of this bimonthly “Archives of Mechanics” (published in foreign languages, mainly in English) and of the Academy’s quartely “Engineering Reports” (in Polish); he has edited two volumes containing the final reports of the congresses on “Non-homogeneity in Elasticity and Plasticity” (Oxford-Warsaw 1958) and, together with A. SAWCZUK, on “Non-classical Shell Problems” (Amsterdam-Warsaw 1963). He is a member of the editorial Committee of the “Journal de Mécanique” (Paris), co-editor of the quartely “Acta Mechanica” (Vienna), of the series “Advances in Applied Mechanics” (1962–1969), of “Zeitschrift für Angewandte Mathematic und Mechanik” (Dresden), and of the “International Journal of Non-Linear Mechanics” (Oxford).

In recognition of his outstanding scientific achievements Professor OLSZAK has twice been awarded the State Prize First Class (1955, 1966), the Commander’s Cross with Star of the Polonia Restituta Order, and other high distinctions. He is also a honorary member of the Polish Society of Theoretical and Applied Mechanics.

He is a foreign member of the Academies of Sciences of Belgrade (1959), Toulouse (1959), Stockholm (Eng. Ac. 1961), Helsinki (Eng. Ac. 1963), Budapest (1964), Turin (1965), Halle (1967), Paris (1969), Sofia (1970), Vienna (1970). He has also been awarded the degree of Doctor Honoris Causa by the Universities of Toulouse (1962) and Liège (1963), the Technical University of Vienna (1965), the Mining Academy of Cracow (1969), and the Technical University of Dresden (1970). He is the holder of high foreign distinctions as the Austrian “Ehrenzeichen für Wissenschaft und Kunst” (Commander, 1964), the French “Ordre du Mérite pour la Science et l’Invention” (Officer, 1965), the Bulgarian Kyrill and Methodi Order, First Class (1970), the Medal of the Czechoslovak Academy of Sciences.

We take the opportunity of the 70th Anniversary of the co-founder of our Journal and its past editor-in-chief to wish him continued vigorous and happy activities for a long time to come. “Ad multos prosperos annos!”.

*EDITORIAL COMMITTEE*

WACŁAW OLSZAK

### List of publications

#### Monographs and textbooks

1. *Exzentrische Kreisrohre. Ihre Verwendung und Berechnung* [mimeographed], 176 pp., 1933.
2. *Sprężyste układy płaskie z otworami kołowymi w zastosowaniu do zagadnień blach płaskich oraz tunelowych i górniczych robót inżynierskich.* [Plane elastic systems containing circular holes, with applications in metal, tunnel, and mining engineering [in Polish], Akad. Nauk. Techn., 154 pp., Warszawa 1934.
3. *Konstrukcje wstępnie sprężone* [Prestressed structures, in Polish], Vol. I, 402 pp., Warszawa 1955.
4. with S. KAUFMAN, Cz. EIMER and Z. BYCHAWSKI, *Teoria konstrukcji wstępnie sprężonych* [Theory of prestressed structures, in Polish], Vol. I, II, 1258 pp., PWN, Warszawa 1962.
5. with Z. MARCINIAK, Z. MRÓZ, P. PERZYNA, J. RYCHLEWSKI, A. SAWCZUK, W. URBANOWSKI, *Wprowadzenie w teorię plastyczności. Podstawy matematyczne. Zastosowania inżynierskie* [Introduction to plasticity. Mathematical foundations. Engineering applications, in Polish], 413 pp., Polska Akad. Nauk., Warszawa 1962.
6. with J. RYCHLEWSKI, W. URBANOWSKI, *Plasticity under non-homogeneous conditions* in "Advances in Applied Mechanics", Vol. III, 84 pp., Acad. Press, 1962. Russian Translation, 156 pp., Mir, Moscow 1964.
7. with Z. MRÓZ, P. PERZYNA, *Recent trends in the development of the theory of plasticity*, 196 pp., Oxford-Warszawa 1963. Russian translation, 244 pp., Mir, Moscow 1964; Czech translation, 198 pp., Naklad. CSAV, Praha 1964.
8. with Z. MARCINIAK, Z. MRÓZ, P. PERZYNA, J. RYCHLEWSKI, A. SAWCZUK, W. SZCZEPIŃSKI, M. ŻYCKOWSKI, *Teoria plastyczności* [Theory of plasticity, in Polish], 399 pp., PWN, Warszawa 1965. Romanian translation, 672 pp., Editura Tehnica, Bucuresti 1970.
9. S. KAUFMAN, Cz. EIMER, *Konstrukcje sprężone* [Prestressed structures, in Polish], 920 pp., Arkady, Warszawa 1965.
10. with A. SAWCZUK, *Inelastic behaviour in shells*, 122 pp., Nordhoff Series of Monographs on Pure and Applied Mathematics, Groningen 1967. Russian translation, 144 pp., Mir, Moscow 1969.

P a p e r s<sup>1)</sup>

## 1922/1923

11. *Uproszczony sposób obliczania połączeń torów* [A simplified method of calculating railway track joints, in Polish], Biul. Techn., Katowice 1922/23. (C)

## 1925

12. *Hydrodynamische Beanspruchung von beweglichen Wehrtafeln*, Techn. Ber., Techn. Hochschule, Wien 1925. (A)

## 1928

13. *Wytrzymałość na zginanie belek żelbetowych jedno- i dwustronnie zbrojonych* [Bending strength of unilaterally and bilaterally reinforced concrete beams, in Polish], Czasop. Techn. No. 2, Lwów 1928. (A)  
 14. *Most na Wiśle pod Goczałkowicami* [The bridge over the Vistula at Goczałkowice, in Polish], Techn. No. 3, Katowice 1928. (C)

## 1933

15. *Żelazne ścianki szczelne* [Steel sheet piling, in Polish], Czasop. Techn. No. 21, Lwów 1933. (C)

## 1934

16. *O zjawiskach ciśnień przy robotach górniczych i tunelowych* [On pressure phenomena occurring in mining and tunnel engineering, in Polish], Techn. No. 11, Katowice 1934. (A)

## 1935

17. *Uwagi krytyczne dotyczące fali ciśnień oraz proste wyjaśnienie odnośnych zjawisk* [Critical remarks concerning pressure waves and a simple explanation of the corresponding phenomena, in Polish], Techn. No. 1, Katowice 1935. (A)  
 18. *Eisenbetonrohre für Spülversatzzwecke*, Zement, No. 14, 15, 16, 1935. (A)  
 19. *Anwendung der Inversionsmethode bei Behandlung von ebenen Problemen der Elastizitätstheorie*, Ing.-Archiv, No. 6, 1935. (A)

## 1936

20. *Zagadnienia statyki rurociągów żelbetowych oraz pokrewnych konstrukcji z betonu zbrojonego z uwagi na ich anizotropię* [Problems of statics of reinforced concrete pipelines and related reinforced concrete structures on account of their anisotropy, in Polish], Księga Pam. II Zj. Inż. Bud., Katowice 1936. (B)

(<sup>1)</sup> Abbreviations: Arch. Mech. Stos. — Archives of Mechanics • Archiwum Mechaniki Stosowanej Bull. Acad. Pol. Sci. — Bull. Acad. Polon. Sci., Série Sci. Techn., Série D.

## Explanatory signs

- (A) Original papers, published for the first time  
 (B) Original papers, published in another language in a complete or widened form  
 (C) Engineering structures  
 (D) Scientific articles

21. *O pewnym zagadnieniu z dziedziny mechaniki gruntów budowlanych* [On a certain problem related to soil mechanics, in Polish], *Czasop. Techn.* No. 11, Lwów 1936. (A)
22. *Über einen einfachen, praktisch wichtigen Zusammenhang von Spannungszuständen. Randbemerkungen zur Statik von langgestreckten und scheibenartigen Ingenieurbauwerken*, *Beton u. Eisen* No. 18, 1936. (A)
23. *O ulepszonym sposobie zbrojenia sklepień żelbetowych ze szczególnym uwzględnieniem wymogów obudowy górniczej i budownictwa przeciwlotniczego* [On an improved way of reinforcing concrete vaults, particular attention being paid to mining gallery lining and air raid shelter requirements, in Polish], *Techn.* No. 10, Katowice 1936. (C)
24. *Beiträge zur Statik von polarorthotropen Scheiben und zylinderorthotropen Rohren*, *Bauing.* No. 31, 32, 1936. (A)
25. *Der ebene Formänderungszustand und Spannungszustand der Elastizitätstheorie*, *Zeitschr. Ing.-u. Arch. Ver.* No. 15, 16, Wien 1936. (A)
26. *Ustroje grubościenne w wykonaniu ulepszonym a dotychczasowym w zastosowaniu do obudowy chodników i szybów górniczych* [Thick-walled structures designed according to former and improved methods, in application to mining gallery and shaft mining, in Polish], *Przegl. Górn. Hutn.* No. 12, Katowice, Sosnowiec 1936. (A)
27. *Thick-walled reinforced concrete-pipes. Proposal for increasing their statical efficiency*, *Rapp. Fin. 2<sup>e</sup> Congr. Intern. AIPC*, 1936. (A)
28. with W. ŻELESKI, *Żelbet w obudowie górniczej. Wytrzymałościowe studium porównawcze* [Reinforced concrete in mining engineering, in Polish], *Przegl. Górn. Hutn.* Katowice, Sosnowiec 1936. (C)
29. *Żelbetowe schrony przeciwlotnicze* [Reinforced concrete air-raid shelters, in Polish], *Przegl. Techn.* No. 10, 21, Warszawa 1936. (C)

### 1937

30. *Pierścienie i rury o wyrównanych naprężeniach obwodowych. Studium nad usprawnieniem konstrukcji grubościennych* [Rings and tubes with equalized hoop stresses. A study on improving thick-walled structures, in Polish], *Czasop. Techn.*, No. 1-6, Lwów 1937. (A)
31. *Niektóre zagadnienia teoretyczne z dziedziny statyki nowoczesnych ustrojów żelbetowych* [Some theoretical problems of statics of modern reinforced concrete structures, in Polish], *Przegl. Budowl.* No. 3, Warszawa 1937. (C)
32. *Izolacje mostowe* [Bridge insulations, in Polish], *Cement* No. 10, 11, Warszawa 1937. (C)
33. *Nicht hochwasserfreie Holzbrücken*, *Bauing.* No. 11, 12, 1937. (C)
34. *Budownictwo nowoczesne a postulatory OPL i OPG* [rozprawa habilitacyjna] [Modern building engineering and the air-raid defense regulations, in Polish], Kraków 1937. (A)

### 1938

35. *O stropach przeciwlotniczych* [On bomb-proof floors, in Polish], *Inż. i Budown.* No. 1, Warszawa 1938. (A)
36. *Ulepszone lufy działowe* [Improved gun barrels, in Polish], *Przegl. Techn.* No. 14, Warszawa 1938. (A)
37. *Ceny jednostkowe czy ryczałt?* [Unit prices or lump prices? in Polish], *Przegl. Budowl.* No. 8, Warszawa 1938. (C)

### 1939

38. *W sprawie artykułu inż. A. Hauke-Bosaka p.t. "Wzory do obliczania słupów żelbetowych uzwojonych względnie splaszczonych"* [Remarks on the paper by A. Hauke-Bosak "Calculation formulae for spiral reinforced concrete columns", in Polish], *Inż. i Budown.* No. 2, Warszawa 1939. (A)
39. *Dickwandige Rohre und Ringquerschnitte aus Eisenbeton. Neue Erkenntnisse, neue Gesichtspunkte für Bemessung und Berechnung*, *Beton u. Eisen* No. 2, 1939. (A)

40. *Postępy lat ostatnich w budownictwie stalowym (ze szczególnym uwzględnieniem przykładów ze Śląska)*. Przedmowę napisał prof. dr Stefan Bryła [Recent years' achievements in steel structures (particularly in Silesia), in Polish. Preface written by S. BRYŁA], Techn. No. 8 and 9, Katowice 1939. (C)
41. *O słupach uzwojonych* [On spiral reinforced columns, in Polish], Inż. i Budown., Warszawa 1939. (A)

### 1946

42. *Orthotropie polaire et cylindrique*, Spraw. Końc. VI Międz. Kongr. Mech. Stos., Paris 1946. (A)
43. *Z teorii belek i płyt wstępnie sprężonych* [From the theory of prestressed beams and plates, in Polish], Inż. i Budown. No. 2, Warszawa 1946. (A)

### 1947

44. *Wibrowanie betonu w czasie jego wiązania* [Vibration of concrete during setting, in Polish], Inż. i Budown. No. 3/4, Warszawa 1947. (C)
45. *Cementy ekspansywne. Ich charakterystyka i własności* [Expansive cements, in Polish], Cement No. 9, Warszawa 1947. (C)

### 1948

46. *Prestressed spiral reinforcement*, Fin. Rep. 7th Intern. Congr. Appl. Mech., vol. I, London 1948. (A)
47. *Two-dimensional strain and two-dimensional stress systems*, Fin. Rep. 7th Intern. Congr. Appl. Mech., vol. I, London 1948. (A)
48. *L'effet du fretage en nappes transversales des constructions en béton armé*, Rapp. Fin. 3<sup>e</sup> Congr. Intern. AIPC, Liège 1948. (A)
49. *Rusztzy poprzeczne jako zbrojenie elementów ściskanych* [Transversal grids as reinforcement of compressed elements, in Polish], Inż. i Budown. No. 5, Warszawa 1948. (B)
50. with J. NECHAY, *Cement i beton w świetle najnowszych badań międzynarodowych* [Cement and concrete in the light of recent international investigations, in Polish], Cement No. 4, Warszawa 1948. (C)
51. *Żelbet w prefabrykacji włoskiej* [Reinforced concrete in Italian prefabrication, in Polish], Cement No. 5, Warszawa 1948. (C)
52. with J. NECHAY, *Włoska ceramika budowlana* [Italian building ceramics, in Polish], Inż. i Budown. No. 7/8, Warszawa 1948. (C)
53. with H. MISCHKE, *Betony napowietrzane. Betony koloidalne* [Aerated concrete. Colloidal concrete, in Polish], Czasop. Techn. No. 3/4, Kraków 1948. (C)
54. *Znaczenie prac naukowo-badawczych dla rozwoju techniki budownictwa inżynierskiego* [Rôle of scientific research in the development of civil engineering, in Polish], Inż. i Budow. No. 18, Warszawa 1948. (D)

### 1949

55. *Prestressing applied to bound columns*, Arch. Mech. Stos. No. 1, Gdańsk 1949. (B)
56. *Plane strain and plane stress systems*, Arch. Mech. Stos. No. 3, Gdańsk 1949. (B)
57. *Sprężenie wstępne w zastosowaniu do słupów uzwojonych* [Application of prestressing for spiral reinforced columns], Ks. Zj. VI Zjazdu Nauk. PZITB, vol. V, Gdańsk 1949. (B)
58. *Beton sprężony a żelbet. Dwie zasadniczo odmienne koncepcje* [Prestressed concrete and reinforced concrete; two basically different concepts, in Polish], Inż. i Budown. No. 10–12, Warszawa 1949. (C)
59. *50-lecie pracy naukowej Profesora Maksymiliana Tytusa Hubera* [50 years of scientific activity of Professor Maksymilian T. Huber, in Polish], Arch. Mech. Stos. No. 4, Gdańsk 1949. (D)
60. with J. NECHAY, *Konstrukcje wstępnie sprężone we Włoszech i w Szwajcarii* [Prestressed structures in Italy and Switzerland, in Polish], Inż. i Budown. No. 7/8, Warszawa 1949. (C)

61. *Beton sprężony* [Prestressed concrete, in Polish], Ref. Podsekc. VI Zj. Nauk. PZITB, Gdańsk 1949. (B)  
62. *Żelbet, prefabrykacja, beton sprężony* [Reinforced concrete, prefabrication, prestressed concrete, in Polish], Inż. i Budown., Warszawa 1949.

### 1950

63. *Autocontraintes des milieux anisotropes*, Prace Komisji Nauk Techn. Polsk. Akad. Umiej., vol. I, No. 1, Kraków 1950. (A)  
64. *Dwuwymiarowy stan odkształcenia i dwuwymiarowy stan naprężenia teorii sprężystości we wspólnym ujęciu* [Two-dimensional states of strain and stress of elasticity in a joint approach, in Polish], Prof. M. T. Huber Anniv. Vol., Gdańsk 1950. (B)  
65. *O pewnej zależności stanów naprężenia w teorii sprężystości* [On a certain relationship of the states of stress in the theory of elasticity, in Polish], Spraw. Polsk. Akad. Umiej. No. 6, Kraków 1950. (A)  
66. *Samonapężenia w ośrodkach anizotropowych* [Selfstresses in anisotropic media, in Polish] Spraw. Polsk. Akad. Umiej. No. 6, Kraków 1950. (B)

### 1951

67. *Les bases théoriques d'une nouvelle application de l'idée de la précontrainte*, Assoc. Scientif. Préc. No. 196, Travaux 1951, Paris 1951. (B)  
68. *Skręcanie prętów anizotropowych w świetle teorii odkształceń nieliniowych* [Torsion of anisotropic rods in the light of the finite strain theory, in Polish], Arch. Mech. Stos. No. 3/4, Gdańsk 1951. (A)  
69. *Wpływ własności mechanicznych materiałów na teorię ustrojów sprężonych* [Influence of mechanical material properties on the theory of prestressed structures, in Polish], I Konf. Nauk.-Techn. Bet., PWT, Warszawa 1951. (A)  
70. with B. KOPYCIŃSKI, W. MUSZYŃSKI, J. KRAWCZYŃSKI, *Badania nad zagadnieniem rekonstrukcji ustrojów żelbetowych* [Research on the reconstruction of reinforced concrete structures, in Polish], Prace Inst. Techn. Bud. No. 133, Warszawa 1951. (C)  
71. *Konstrukcje wstępnie sprężone* [Prestressed structures, in Polish], Ref. I Kongr. Nauki Polsk., Inż. i Budown. No. 2, Warszawa 1951. (C)  
72. *Rozwój konstrukcji wstępnie sprężonych w świetle II Międzynarodowego Zjazdu* [Development of prestressed structures in the light of the 2nd International Congress, in Polish], Przegl. Budowl. No. 9, Warszawa 1951. (C)

### 1952

73. *Anizotropia struktury jako problem teorii sprężystości* [Structural anisotropy as a problem of theory of elasticity, in Polish], Tow. Nauk. Warsz., Sprawozd. Wydz. VI Nauk. Techn., Warszawa 1952. (A)  
74. *Új gondolatok az építőmérnöki gyakorlatban* [New concepts in structural engineering, in Hungarian], Węg. Akad. Nauk, vol. VI, No. 1/2, Budapest 1952. (B)

### 1953

75. *Uogólnienie analogii membranowej do zagadnień układów anizotropowych* [Generalization of the membrane analogy to the problems of anisotropic systems, in Polish], Arch. Mech. Stos. No. 1, Warszawa 1953. (A)  
76. with J. NOWIŃSKI, *Naprężenia termiczne w grubościennym walcu anizotropowym* [Thermal stresses in a thick-walled anisotropic cylinder, in Polish], Arch. Mech. Stos. No. 2, Warszawa 1953.  
77. *Zagadnienie ortotropii w teorii nośności granicznej płyt* [The problem of orthotropy in the limit analysis of plates, in Polish], Arch. Mech. Stos. No. 3, Warszawa 1953. (A)  
78. with J. LITWINISZYN, *Nieliniowe zjawisko pewnego przepływu cieczy jako model reologiczny* [Nonlinear



- phenomenon of a certain liquid flow as a rheological model, in Polish], Arch. Mech. Stos. No. 4, Warszawa 1953. (A)
79. *Az ortotrop lemezek határteher elméletének néhány kérdéséről* [Orthotropic plates in the plastic range, in Hungarian], Węg. Akad. Nauk, vol. XI, No. 1/2, Budapest 1953. (A)
80. *Plastostatyka ustrojów nośnych* [Plastostatics of load carrying structures, in Polish], Inż. i Budown. No. 7, Warszawa 1953. (B)
81. *Teoria nośności granicznej płyt ortotropowych* [Theory of load carrying capacity of orthotropic plates, in Polish], Bud. Przem. No. 7/8, Warszawa 1953. (A)
82. with Cz. EIMER, *Polskie prace badawcze nad betonem kablowym* [Polish research on post-tensioned prestressed concrete, in Polish], I Konf. Nauk.-Techn. Konstr. Wst. Spręż. ITB, Warszawa 1953. (C)
83. with A. MAGIERA, *Parcie wiatru na konstrukcje inżynierskie w świetle najnowszych badań* [Wind pressure in engineering structures in the light of recent research, in Polish], Inż. i Budown. No. 11, Warszawa 1953.

### 1954

84. with J. NOWIŃSKI, *O podstawach teorii ciał sprężystych fizykalnie nieliniowych* [On the foundations of the theory of physically nonlinear bodies, in Polish], Arch. Mech. Stos. No. 1, Warszawa 1954.
85. *O podstawach teorii ciał elasto-plastycznych niejednorodnych. I.* [On the foundations of the theory of non-homogeneous elastic-plastic bodies (I), in Polish], Arch. Mech. Stos. No. 3, Warszawa 1954.
86. *Z zagadnień teorii elementów uzwojonych w świetle reologicznych własności materiałów* [Some problems of the theory of spiral reinforced elements in the light of the rheological material, behaviour, in Polish], Arch. Mech. Stos. No. 2, Warszawa 1954. (A)
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