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### PERSONAL

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| <b>Date of Birth</b>  | 24.02.1939 |
| <b>Place of Birth</b> | Ankara     |

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### EDUCATION

|           |  |
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| 1961-1966 | Imperial College of Science & Technology, University of London, Applied Mechanics, Ph.D. |
| 1960-1961 | Imperial College of Science & Technology, University of London, Applied Mechanics, M.S.  |
| 1956-1960 | Middle East Technical University, Mechanical Engineering, B.S.                           |

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### ACADEMIC POSITIONS

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| <b>September/2008-<br/>Now</b>       | Professor, Department of Manufacturing Engineering,<br>Atılım University, Turkey                        |
| <b>August/1969-<br/>August/2008</b>  | Professor, Department of Mechanical Engineering<br>Middle East Technical University, Turkey             |
| <b>August/1981-<br/>January/1984</b> | Visiting Professor, Mechanical & Aerospace Engineering Department,<br>Oklahoma State University, U.S.A. |
| <b>September/1966-<br/>June/1969</b> | Professor, Department of Mechanical Engineering<br>Ottawa University, Canada                            |

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### ADMINISTRATIVE DUTIES

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| <b>September/2011-<br/>Now</b>            | Chairman of BOREN Center of Competence for Boron Coatings, ATILIM<br>University                               |
| <b>August/2013-<br/>April/2017</b>        | Chairman of Executive Board, Metal Forming Center of Excellence, ATILIM<br>University                         |
| <b>September/2008-<br/>August/2013</b>    | Chairman of Manufacturing Engineering Department, ATILIM University   |
| <b>July/1987- July<br/>1992</b>           | Vice President, Middle East Technical University  |
| <b>June/1984- June<br/>1987</b>           | Director of Graduate School of Natural and Applied Sciences, Middle East<br>Technical University              |
| <b>January/1984-<br/>May/1992</b>         | Founding Director of CAD/CAM Robotic Center, Middle East Technical<br>University                              |
| <b>May/1977-<br/>August/1981</b>          | Founding Director of Mechanical Design and Manufacturing Research Center,<br>Middle East Technical University |
| <b>September/1973-<br/>April/1977</b>     | Chairman of Department of Mechanical Engineering,<br>Middle East Technical University                         |
| <b>September/1971-<br/>September/1973</b> | Assistant Chairman of Department of Mechanical Engineering,<br>Middle East Technical University               |

## HONORS&AWARDS

|    |   |
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| 1  | AFS Scholarship to study in St. Louis Park High School, Minnesota, USA 1955-56  |
| 2  | Rector Profesör Woolrich Award- Graduate having highest GPA in Middle East Technical University (METU) in 1960, Ankara, Turkey        |
| 3  | CENTO Fellowship to carry out graduate study towards Ph.D. degree at Imperial College of Science & Technology, London, UK             |
| 4  | High Academic Performance Awards-Middle East Technical University (METU), Ankara, Turkey for the years: 2000,2001,2002,2003,2004,2005 |
| 5  | Award for the highest number of graduate thesis supervision in Manufacturing given by National Export Agency-2012                     |
| 6  | Award for the best Ph.D. thesis supervision of the year by METU-Parlar Foundation- 2013   |
| 7  | Award for the high technology thesis on boron nitride coating given by National Export Agency-2013                                    |
| 8  | VII. Necdet Eraslan project competition, Istanbul Mechanical Engineering Society- Finalist in 2015                                    |
| 9  | Dr. Akin Çakmakçı Turkish Technology Foundation (TTGV) – Thesis Award- Finalist 2016  |
| 10 | Antibacterial/Antifungal characteristics of Boron Nitride Coatings- Finalist- National Export Agency-2018                             |
| 11 | Osteoblastic characteristics of Boron Nitride Coatings- Finalist- National Export Agency-2018   |
| 12 | High academic performance and publication awards-ATILIM University for the years: 2008-2022   |

## RESEARCH INTERESTS

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|---|-----------------------------------|
| 1 | Metal Forming                     |
| 2 | Boron Nitride Coating             |
| 3 | Computer Aided Design             |
| 4 | Computer Aided Manufacturing      |
| 5 | Computer Integrated Manufacturing |
| 6 | Robotics                          |
| 7 | Tribology                         |

## PROFESSIONAL SERVICE

|   |  |
|---|--|
| 1 | Publisher, Journal of Mechanical Design and Production   |
| 2 | Editorial and Referee contributions to International Journal of Mechatronics and Manufacturing Systems, JAMT, MATİM, PAJES, CIRP, Elsevier and other journals. |

## PUBLICATIONS- Journal Papers

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|----|--|
| 99 | Nurdan Ozmeric, Gaye Ozgur ,Cakal, Ceren Gokmenoglu,* , Ahmet Ozmeric,Bahar Fusun Oduncuoglu, Tugce Hacalogluf, Bilgin Kaftanoglu, ” Histomorphometric and biomechanical evaluation of the osseointegration around micro- and nano-level boron-nitride coated titanium dental implants”, Journal of Stomatology Oral and Maxillofacial Surgery, 2022, 123 (6) , pp.694-700 |
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| 98  | N. Rake, B. Kaftanoğlu, A. Aydoğan, "Theoretical and Experimental Study: The Effect of The Target-to-Substrate Distance on The Structure and Characteristics of BN Coatings Produced by Magnetron Sputtering",<br>Journal of Harbin Institute of Technology  |
| 97  | N.Rake, B. Kaftanoğlu, T.Hacaloğlu, A.Aydoğan, "Theoretical Modelling of Magnetron Sputtering of Boron Nitride Coating" MRS Communications, 2022   |
| 96  | B. Kaftanoğlu, " Bilimsel ve Teknolojik Gerçekliğe Aykırı Tutumlardan Vazgeçilmelidir",<br>Mühendis-Makina Güncel, Ocak 2022-1, Sayfalar: 12-22  |
| 95  | K. Küçüköztaş, F.Taşcı, H.Varlı, E.Gök, B.Kaftanoğlu, Ş. Baytaroğlu, "Havada Görevlendirilebilen Tekerleksiz Araç Tasarımı – Kişisel Hava Aracı", Makina Tasarım ve İmalat Dergisi, Cilt 20, Sayı 1, Sayfa: 36-48, 2022  |
| 94  | Ceylan Ç. , Duran B. , Koçyiğit O. , Koçer C. , Doğan B. , Hacaloğlu T. , Şengönül C. M. , Kaftanoğlu B. "Havacılık Endüstrisinde Kullanılmak Üzere Alüminyum Malzemelerin Korozyon Direncinin Arttırılması Amacıyla Yüzey Kaplaması Geliştirilmesi", Makina Tasarım ve İmalat Dergisi. 2021; 19(2): 82-87.  |
| 93  | A.E.S. Özhan, T. Hacaloğlu, B. Kaftanoğlu, "Development of hard, anti-reflective coating for mid wave infrared region", Infrared Physics & Technology (2021), doi: <a href="https://doi.org/10.1016/j.infrared.2021.103910">https://doi.org/10.1016/j.infrared.2021.103910</a>   |
| 92. | Ahmet Özmeriç, Oğuzhan Tanoğlu, Mert Ocak, Hakan Hamdi Çelik, Ayşegül Fırat, Fevziye Figen Kaymaz, Gökhan Koca, Mehmet Şenes, Kadir Bahadır Alemdaroğlu, Serkan İltar, Tuğçe Hacaloğlu, Bilgin Kaftanoğlu, "Intramedullary implants coated with cubic boron nitride enhance bone fracture healing in a rat model", JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY Volume: 62 Article Number: 126599 Published: DEC 2020 |
| 91. | Çağlar Ceylan, Bahtiyar Duran, Osman Furkan Koçyiğit, Cem Koçer, Berkay Doğan, Tuğçe Hacaloğlu, Dr. Cemal Merih Şengönül, Prof. Dr. Bilgin Kaftanoğlu, "Havacılık Sanayiinde Kullanılan Alüminyum Alaşımlarının Korozyona Karşı Direncini Arttırmak Üzere Yüzey Kaplamalarının Araştırılması", Mühendis Makine Güncel, Ağustos 2020, Sayfalar:47-51  |
| 90. | Ozel, Tugrul; Altay, Ayca; Kaftanoglu, Bilgin; et al., "Focus Variation Measurement and Prediction of Surface Texture Parameters Using Machine Learning in Laser Powder Bed Fusion Journal Of Manufacturing Science And Engineering-Transactions of The ASME Volume: 142 Issue: 1 Article Number: 011008 Published: JAN 2020   |
| 89  | M. Yüksel, E.Kılınç, S. Kanberlioğlu, B.Güneri, B.Kaftanoğlu, Ş.Baytaroğlu, T. Hacaloğlu, "Taşınabilir Hafif Yüzey Taşlama Makinasının Tasarım ve İmalatı", Makina Tasarım ve İmalat Dergisi, Cilt:17 , Sayı:1 2019  |
| 88. | Tuğçe Hacaloğlu, Bilgin Kaftanoğlu, "Karbür Uçlar ve Titanyum Nitrür (TiN) Kaplamalı Karbür Uçlar ile Titanyum Alaşımı (Ti6Al4V) ve AISI 1045 Çeliği Arasında Sürtünme ve Aşınma Performansı Araştırması", Makina Tasarım ve İmalat Dergisi, Cilt 17, Sayı 2, Kasım 2019 /57-64  |
| 87. | Cakal, G. O.; Gokmenoglu, C.; Kaftanoglu, B., N. Özmeriç, "Surface Characterization and Corrosion Resistance of Boron Nitride Coated Titanium Dental Implants", Protection of Metals and Physical Chemistry of Surfaces, Volume: 55 Issue: 3 Pages: 608-614 Published: May 2019  |
| 86. | Kaushalendra Patel, Bilgin Kaftanoğlu, Tuğrul Özel1, "Micro textured cutting tool effects on cutting forces, volumetric wear and adhesion in dry turning of titanium alloy", Int. J. Mechatronics and Manufacturing Systems, Vol. 12, No: ¾, pp: 180-195   |
| 85. | Pepelnjak, T., Kayhan, E., Kaftanoglu, B., " Analysis of non-isothermal warm deep drawing of dual-phase DP600 steel"international Journal of Material Forming, Volume: 12, Issue: 2, Pages: 223-240 Published: March 2019  |

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| 84. | Dizaji, S.A., Darendeliler, H., Kaftanođlu, B. "A study on the constitutive equation effects in the fracture initiation of AA5450 sheets", (2019) Lecture Notes in Mechanical Engineering, pp. 78-83. DOI: 10.1007/978-981-13-0411-8_8  |
| 83. | Dizaji, Shahram Abbasnejad; Darendeliler, Haluk, Kaftanoglu, Bilgin, "Prediction of forming limit curve at fracture for sheet metal using new ductile fracture criterion", European Journal of Mechanics A-Solids, Volume: 69 Pages: 255-265 Published: MAY-JUN 2018  |
| 82. | Kayhan, Erdem; Kaftanoglu, Bilgin, "Experimental investigation of non-isothermal deep drawing of DP600 steel", International Journal of Advanced Manufacturing Technology, Volume: 99 Issue: 1-4 Special Issue: SI Pages: 695-706 Published: OCT 2018   |
| 81. | T. Pepelnjak & E. Kayhan & B. Kaftanoglu, " Analysis of non-isothermal warm deep drawing of dual-phase DP600 steel", International Journal of Material Forming, THEMATIC ISSUE: ADVANCES IN MATERIAL FORMING SIMULATION, <a href="https://doi.org/10.1007/s12289-018-1400-0">https://doi.org/10.1007/s12289-018-1400-0</a> , Accepted: 3 January 2018   |
| 80. | Dizaji, Shahram Abbasnejad; Darendeliler, Haluk; Kaftanoglu, Bilgin, " A Study on the Constitutive Equation Effects in the Fracture Initiation of AA5450 Sheets", 15 July 2018, Proceedings of the 7th International Conference on Fracture Fatigue and Wear pp 78-83, Springer, Singapore. DOI <a href="https://doi.org/10.1007/978-981-13-0411-8_8">https://doi.org/10.1007/978-981-13-0411-8_8</a> |
| 79. | K. Wegener, J. Mayr, M. Merklein, B. Behrens, T. Aoyama, M. Sulitka, J. Fleischer, P. Groche, B.Kaftanoglu, N. Jochum, H. Möhring, " Fluid elements in machine tools", Keynote Paper, CIRP Annals-Manufacturing Technology, Vol: 66 (2017) S: 611-634 Kasım, 2017   |
| 78. | H.Kalkan, T. Hacaloglu, B. Kaftanoglu, "Experimental investigation of friction in deep drawing", The International Journal of Advanced Manufacturing Technology, Vol. 92, Issue 9-12, Sayfa: 3311-3318, DOI: 10.1007/s00170-017-0401-3, Ekim 2017   |
| 77. | B. Çetin, G. Durkaya, H.Kurtuldu, T.Hacalođlu, M.Gürbüz, B. Kaftanođlu, " Wear resistance performance of boron nitride coatings on end milling cutters", Int. J. Mechatronics and Manufacturing Systems, Vol. 10, No. 3, 2017   |
| 76. | Kalkan, H., Hacalođlu, T., Kaftanođlu, B., " Sac Şekillendirme İşleminde Sürtünmenin İncelenmesi", Makina Tasarım Dergisi, Sayı: 2, sayfa: 88-94, Kasım 2016.   |
| 75. | Kayhan, E., Kaftanođlu, B., " Yüksek mukavemet çeliklerinin derin çekme oranlarının geliştirilmesi için yapılan deneysel çalışmalar", Makina Tasarım Dergisi, Sayı: 2, sayfa: 77-87, Kasım 2016.  |
| 74. | Gökmenođlu, C., Özmeriç, N., Çakal, G., Dökmetaş, N., Ergene, C., Kaftanođlu, B., " Coating of titanium implants with boron nitride by RF-magnetron sputtering", Bulletin of Materials Science, September 2016, Volume 39, Issue 5, pp 1363-1370  |
| 73. | Dizaji, SA, Darendeliler, H, Kaftanoglu, B., "On the fracture prediction of 304L stainless steel sheets utilizing different hardening models", Numisheet, Journal of Physics: Conference Series 734 (2016) 032021 doi:10.1088/1742-6596/734/3/032021  |
| 72. | Şengönül M., Durgun İ., Dökmetaş N., Kalkan H., Kaftanođlu, B., "Bor Nitrür Kaplamanın, Kaynak Çapaklarının Metal Aparat Yüzeylerine Yapışma Davranışlarına Etkisi", Makina Tasarım Dergisi, Cilt 1, Sayı:1, 2016, pp.23-30.  |
| 71. | Arisoy, YM,; Guo, CS., Kaftanoglu, B., Ozel, T., "Investigations on Microstructural Changes in Machining of Inconel 100 Alloy Using Face Turning Experiments and 3D Finite Element Simulations", International Journal Of Mechanical Sciences, Volume: 107, Pages: 80-92, DOI: 10.1016/j.ijmecsci.2016.01.009, Published: MAR 2016.   |
| 70. | Dizaji, SA, Darendeliler, H, Kaftanoglu, B., " Effect of hardening models on different ductile fracture criteria in sheet metal forming", International Journal of Material Forming, Volume: 9, Issue: 3, Pages: 261-267, DOI: 10.1007/s12289-014-1188-5, Published: JUL 2016   |

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| 69. | B. Kaftanođlu, N. Dökmetaş, A. E. S. Özhan, T. Hacalođlu, M. Kılıçkan, On Boron Nitride Coating of Metals, "Nano Studies ", 10, s.21-28, (2014)  |
| 68. | S.A.Dizaji, H.Darendeliler, B. Kaftanođlu, Effect of hardening models on different ductile fracture criteria in sheet metal forming, "International Journal of Material Forming ", (Springer), s., (2014)  |
| 67. | Y. Karpat, O. Bahtiyar, B. Deger, B. Kaftanoglu, Drilling of UD-CFRP Laminates with PCD Drills, "CIRP Annals ", 63, (Elsevier), s.81-84., (2014)   |
| 66. | B. Kaftanođlu, N.Dökmetaş, An Environmentally Friendly Method of Cutting and Forming of Materials by c-BN Coated Tools, "International Journal of Sustainable Manufacturing (IJSM) ", 3, s.143-155, (2014)   |
| 65. | N.Dökmetaş, B.Kaftanođlu, Boron Nitride (BN) Coating of Tools and Dies to Improve Performance in Manufacturing Applications, "International Journal of Mechatronics and Manufacturing Systems, IJMMS ", 7, (Inderscience), s., (2014)                                |
| 64. | Kaftanođlu, B., Dökmetaş, N., Performance of boron nitride coated tools and dies, "Advances in Production Engineering & Management ", 8, (Production Engineering Institute (PEI)), s.177-184, (2013)   |
| 63. | Caglar, A.; Yamali, C.; Baker, Derek K, Kaftanoglu B., MEASUREMENT OF SOLAR RADIATION IN ANKARA, "JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY ", Volume: 33, s.135-142, (2013)   |
| 62. | Y.Karpat, N. Polat, B. Kaftanođlu (2013). "Mechanistic force modeling for milling of carbon fiber reinforced polymers with double helix tools", CIRP Annals- Manufacturing Technology, presented at 63 rd CIRP General Assembly, 18-25 August, Copenhagen, Denmark.  |
| 61. | Solmus, Ismail; Rees, D. Andrew S.; Yamali, Cemil,Kaftanoglu, Bilgin, Numerical investigation of coupled heat and mass transfer inside the adsorbent bed of an adsorption cooling unit , "INTERNATIONAL JOURNAL OF REFRIGERATION ", Vol 35, s.652 -662               |
| 60. | Kaftanoglu B. TIAD - TT MAGAZIN / 46. Ocak - Şubat 2012 Sayısı / 10 Ocak 2012 / Kubik Bor Nitru Kaplamalar Makalesi  |
| 59. | Kaftanoglu B.," Mühendisliđin Gelişmesi ve İmalat Mühendisliđi", ", Cumhuriyet Gazetesi, 08-06-2012  |
| 58. | Kaftanoglu B.," Yenilikçilik (Innovation) ve Teknolojik Gelişme", Cumhuriyet Gazetesi, 06-01-2012  |
| 57. | Kaftanoglu B.," Bir Ülkenin Sanayi Gelişim Süreci", MOMENT-EXPO Dergisi, Haziran 2012, Sayı 49, pp: 24-25  |
| 56. | Kaftanoglu B., "Kübik Bor Nitru Kaplamalar", TIAD-TT Magazin, Sayı 46, Ocak-Şubat 2012 pp: 46-48.  |
| 55. | Solmuş İ., Kaftanođlu B., Yamalı C., Baker D., Experimental Investigation of a Natural Zeolite-Water Adsorption Cooling Unit, Applied Energy, Vol.88(2011), 4206-4213.   |
| 54. | Celik, G., Kaftanoglu B., Karadogan C., Investigation of Influence Parameters on Forming Limit Diagrams of Aluminum Alloy-AA2024, Key Engineering Materials Vol. 473 (2011) pp 382-389 (2011) Trans Tech Publications, Switzerland                                   |
| 53. | Taylan, O, Baker, D., Kaftanođlu, B. (2011) Normalized Thermodynamic Model for Intermittent Energy Systems and Application to Solar-Powered Adsorption Cooling Systems. International Journal of Thermodynamics, Vol. 14, No. 3, pp. 107-115. DOI: 10.5541/ijot.289. |
| 52. | Özel T., Thepsonthi T., Ulutan D., Kaftanoglu B., Experiments and Finite Element Simulations on Micro-Milling of Ti-6Al-4V Alloy with Uncoated and cBN coated Tools, CIRP-Annals-Manufacturing Technology (Elsevier), Vol: 60/1- 2011 pages: 85- 88.                 |

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| 51. | Çelik, G., Kaftanoğlu B., Karadoğan C., "AA2024 Alüminyum Alaşımı için Şekillendirilebilir Sınır Diyagramlarını Etkileyen Parametrelerin İncelenmesi", Makina Tasarım ve İmalat Dergisi, Cilt 12, Sayı 1, Mayıs 2011, pp: 28-33                                     |
| 50. | Yalcın S., Kaftanoğlu B., "Derin Çekme İşlemlerinde Plastik Buruşma Analizi ve Modellemesi", Makina Tasarım ve İmalat Dergisi, Cilt 12, Sayı 1, Mayıs 2011, pp: 10-17   |
| 49. | Şanay B., Kaftanoğlu B., "Sac Metal Şekillendirmesinde Plastik Kararsızlık ve Şekillendirme Limitlerinin Belirlenmesi", Makina Tasarım ve İmalat Dergisi, Cilt 12, Sayı 1, Mayıs 2011, pp: 18-27  |
| 48. | Solmuş, İ., Rees, D.A.S., Yamalı, C., Kaftanoğlu, B., Baker, D., "Numerical Investigation of Coupled Heat and Mass Transfer Inside the Adsorbent Bed of an Adsorption Cooling Unit", International Journal of Refrigeration, 2011                                   |
| 47. | Taylan, O., Baker, D. K., and Kaftanoğlu, B. "COP Trends for Ideal Thermal Wave Adsorption Cooling Cycles with Enhancements." International Journal of Refrigeration, DOI: 10.1016/j.ijrefrig.2010.07.008, 2011.  |
| 46. | Taylan O., Baker, D.K., Kaftanoğlu, B. "A New Normalized Model for Intermittent Energy Systems and Application to Solar-Powered Adsorption Cooling Systems", International Journal of Thermodynamics (IJoT), 2010 (In Review: 1st Review Completed).                |
| 45. | Cesur H., Kaftanoğlu B., Kalkanlı A., Oral B., Bor nitrid kaplamaların çelik alttaşlar üzerinde RF magnetron saçırma yöntemiyle büyütülmesi, Makine Tasarım İmalat Dergisi, 2009  |
| 44. | T. Özel, M. Sima <sup>1</sup> , A. K. Srivastava, B. Kaftanoğlu, "Investigations on the Effects of Multi-Layered Coated Inserts in Machining Ti-6Al-4V Alloy with Experiments and Finite Element Simulations", CIRP ANNALS-Manufacturing Technology 59 (2010) 77-82 |
| 43. | Ismail Solmuş, Cemil Yamalı, Bilgin Kaftanoğlu, Derek Baker, Ahmet Çağlar, "Adsorption Properties of a Natural Zeolite-Water Pair for use in Adsorption Cooling Cycles", Applied Energy, vol. 87, 2010, pages 2062-2067   |
| 42. | Cesur H., Kaftanoğlu B., Kalkanlı A., Oral B., Bor nitrid kaplamaların çelik alttaşlar üzerinde RF magnetron saçırma yöntemiyle büyütülmesi, Makine Tasarım İmalat Dergisi, 2009  |
| 41. | Lazoğlu, İ., Ulutan, D., Alaca B. E., Engin S., Kaftanoğlu B., "An Enhanced Analytical Model for Residual Stress Prediction in Machining", Annals of the CIRP, Vol: 57, 1/2008  |
| 40. | Özel T., Karpat Y., Srivastava A., Kaftanoğlu B., "Hard Turning with Variable Micro-Geometry PcBN Tools", Annals of the CIRP, Vol: 57, 1/2008   |
| 39. | Fırat, M., Kaftanoğlu, B., Eser O., "Sheet Metal Forming Analyses with an Emphasis on the Springback Deformation, Journal of Materials Processing Technology, 196, 135-148 (2008).  |
| 38. | Baker, D.K. and B. Kaftanoğlu, "Predicted Impact of Collector and Zeolite Choice on the Thermodynamic and Economic Performance of a Solar Powered Adsorption Cooling System", Experimental Heat Transfer journal, 20:2, pp. 103-122, 2007.                          |
| 37. | Bayraktar H., Kaftanoğlu B., "Endüstriyel Bir Robot için Stereo Görüş Sistemi Geliştirilmesi", Makina Tasarım ve İmalat Dergisi, Cilt 7, Sayı 2 Kasım 2005, sayfa: 57-67  |
| 36. | Mahir Cihan Cengiz, Prof. Dr. Bilgin Kaftanoğlu, Endüstriyel Bir Robot için İnsan-Makina Arayüz Programının Geliştirilmesi, Makina Tasarım ve İmalat Dergisi, Cilt:6 Sayı:2 Sayfa:99-107, 11/2004   |
| 35. | M. Dölen, B. Kaftanoğlu, R.D. Lorenz, A Cutting Force Estimator for CNC Machining Centers, Annals of the CIRP, Vol : 53 Page: 313-316, 1/2004   |
| 34. | M. Dölen, B. Kaftanoğlu, R.D. Lorenz, Cross Reference Models for Estimating Unknown Principal Force Components in End-Milling process, Annals of the CIRP, Vol : 52 Page : 81-84, 8/2003  |
| 33. | Ata Hançer Uysal, Bilgin Kaftanoğlu, Traktör Fren Sistemlerinin Fonksiyonel Analizi ve Geliştirilmesi, Makina Tasarım ve İmalat Dergisi, Cilt 4 Sayı: 4 Sayfa: 236-247, 11/2002   |

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| 32. | C.Çoğun, S.Akaslan, B.Kaftanoğlu, An Investigation on Tool Electrode Edge Wear in Electric Discharge Machine, Canadian Society of Mechanical Engineering Transactions, Page : 6, 7/2001                   |
| 31. | B.Kaftanoğlu, O.Eren, Altı Serbestlik Dereceli Bir Endüstriyel Robotun Tasarımı, İmalatı ve Çalıştırılması, Makina Tasarım ve İmalat Dergisi, 11/2001   |
| 30. | Konukseven, İ., Kaftanoğlu, B., "Multisensor Controlled Robot System for Recognizing and Tracking Moving Multiple Objects", Journal of Robotic Systems, 16(11), 651-665, 1999.                            |
| 29. | Kaftanoğlu, B., Alkan, O., "Computer Aided Design of Rotary Screen and Conveyor for Solid Waste Processing", Journal of Machine Design and Manufacturing, Vol. 3, No 4, September 1998, 154-160,          |
| 28. | Kaftanoğlu, B., "Design and Manufacturing of Dies and Molds", Journal of Industry and Automation, March 1998, No 12, 16-18. (In Turkish)  |
| 27. | Alniak, O., Kaftanoğlu, B., "Powder Metallurgy Constitutive Equations", Tr. Journal of Engineering and Environmental Sciences 21 (1997) 371-377. (In Turkish)   |
| 26. | Kaftanoğlu, B., Yahşi, O., "Computer Aided Modeling of the Tube Drawing Process", Journal of Mechanical Tech. No 6, pp 48-50, 1995. (In Turkish)  |
| 25. | Alniak, O., Kaftanoğlu, B., Ankara, A., "Thermo-Mechanical and Micro-Dynamical Behaviours of Super Alloys", Turkish Journal of Engineering and Environmental Sciences, Vol. 18, No. 4, pp. 271-280, 1994. |
| 24. | Rincon, D. M., Ulsoy, A. G., Kaftanoğlu, B., "Effects of Drill Vibrations on Cutting Forces and Torque", Annals of the CIRP, Vol. 43/1/1994, pp. 59-62, 1994.   |
| 23. | Kaftanoğlu, B., Konukseven, E. İ., "Role of Robotic Applications in CAD/CAM/CAE ", CAD/CAM/CAE Journal, No. 4, pp. 19-22, Aug. 1994. (In Turkish)   |
| 22. | Kaftanoğlu, B., Gökler, M. İ., "Main Stages in Industrial Development and What can be done in CAD/CAM/CAE during the Economic Crisis?", CAD/CAM/CAE Journal, No. 3, pp. 21-23, May 1994. (In Turkish)     |
| 21. | Kaftanoğlu, B., Gökler, M. İ., "CAD/CAM/CAE Applications Force Computer Technology", CAD/CAM/CAE Journal, No. 2, pp. 23-25, Feb. 1994. (In Turkish)   |
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| 3  | Development of a Solar Energy Powered Zeolite Air Conditioning System-01.10.2006- 01.01.2009-TÜBİTAK   |
| 4  | Coating of Cutting Tools with Boron Nitride for Non-Cooling Applications- 01.08.2006- 01.11.2008-TÜBİTAK                                       |
| 5  | Development of Boron Nitride Technology for Cutting Tools and Dies- 01.10.2011-01.10.2014- BOREN   |
| 6  | Improvement of Productivity of Cutting Tools and Dies by using Boron Nitride Coatings- 2011- 2014- ATILIM University                           |
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| 9  | Surface Characteristics of Titanium Dental Implants Coated by Boron Nitride-2013-2014- TÜBİTAK   |
| 10 | Investigations of Antibacterial Properties of 316 L Stainless Steel Coated by Boron Nitride- 2014-2015- ATILIM University                      |
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| 12 | Investigation of Friction in Sheet Metal Forming-2013- 2015- ATILIM University   |
| 13 | Investigation of the Performance of Cutting Dies Coated by Boron Nitride used for Trimming of Hot Formed Parts - 2013-2015- TÜBİTAK TEYDEB     |
| 14 | Modelling of Hot and Warm Sheet Metal Forming Process- 2014-2016- TÜBİTAK  |
| 15 | Biomechanical and Histomorfometric Evaluations of Boron Nitride Coated Titanium Dental Implants-2014 – 2016- TÜBİTAK                           |

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| 16 | Consulting on Production- Petrotek-2016-2018   |
| 17 | Optimization and Weight Reduction of Profiles Used in Ceiling Construction-2017-2017- Uğur Metal Sanayi  |
| 18 | Development of Design Methodologies and Improvement of Geometries for Cutting Tools to Increase Productivity- 2017-2018- TÜBİTAK                                 |
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| 24 | Research on Formability of Aluminum-Lithium Alloys, 2021-2022  |
| 25 | Rigidity optimization of titanium sheet parts, 2022-2023   |
| 26 | Investigation of Mechanical and functional performance of Boron Nitride Coated Surgical Needles, 2021-2022   |
| 27 | Design & Development of an electrical bicycle with regenerative braking, 2021-2022   |
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| 2 | MFGE 102 Fundamentals of Product Design and Manufacturing Engineering |
| 3 | MFGE 401 Capstone Project 1   |
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| 5  | MFGE 404 Computer Integrated Manufacturing         |
| 6  | MFGE 478 Production Plant Design                   |
| 7  | ME 407 Mechanical Engineering Design               |
| 8  | ME 471 Production Plant Design                     |
| 9  | ME 533 Computer-Aided Design                       |
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| 21 | SALEM SHORAN              | BİLGİN KAFTANOĞLU                       | Computer Aided Design and Manufacturing of a Robot for Grinding and Polishing Operations of Specimens   | -    |
| 20 | NAKKA LOTFY RAKE          | BİLGİN KAFTANOĞLU                       | Theoretical Modelling of Boron Nitride Coating  | 2022 |
| 19 | TUĞÇE HACALOĞLU           | BİLGİN KAFTANOĞLU                       | Development of Boron Coatings for Single and Multi-layer Films for Mechanical and Biomedical Applications   | 2021 |
| 18 | ALP EREN SİNAN ÖZHAN      | BİLGİN KAFTANOĞLU                       | A Study on the Optical and Mechanical Properties of Optical Thin Films  | 2018 |
| 17 | HAKAN KALKAN              | BİLGİN KAFTANOĞLU                       | Investigation of Friction in Sheet Metal Forming  | 2017 |
| 16 | ERDEM KAYHAN              | BİLGİN KAFTANOĞLU                       | The Development of a Method to Improve the Limit Drawing Ratio of Blanks Using Preferential Heating   | 2015 |
| 15 | SHAHRAM ABBASNEJAD DIZAJI | HALUK DARENDELİLER<br>BİLGİN KAFTANOĞLU | An Investigation of ductile fracture Criteria for Sheet Metal Forming   | 2014 |
| 14 | İSMAİL SOLMUŞ             | CEMİL YAMALI<br>BİLGİN KAFTANOĞLU       | An Experimental Study on the Performance of An Adsorption Cooling System and The Numerical Analysis of Its Adsorbent Bed                            | 2011 |
| 13 | SEDAT SAVAŞ KIRIMLIOĞLU   | BİLGİN KAFTANOĞLU                       | Finite Element Modeling of Plastic Deformation In Sheet Metal Forming   | 2002 |
| 12 | MACİT KARABAY             | BİLGİN KAFTANOĞLU                       | A Study on Geometric Dimensioning and Tolerancing   | 1999 |
| 11 | A.ZAFER ŞENALP            | BİLGİN KAFTANOĞLU                       | Computer Aided Wrinkling Analysis of Nonaxisymmetric Parts in Sheet-Metal Forming   | 1998 |
| 10 | İLHAN KONUKSEVEN          | BİLGİN KAFTANOĞLU                       | Moving Part Recognition and Automatic Pick and Place Using an Industrial Robot  | 1996 |
| 9  | OYA YAHŞI                 | BİLGİN KAFTANOĞLU                       | Elasto-Plastic Solution of the Tube Sinking Problem with the Finite Element Method  | 1995 |
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| 7  | HALUK DARENDELİLER        | BİLGİN KAFTANOĞLU                       | Computer-Aided Deformation Analysis of Deep-Drawing Process   | 1991 |
| 6  | M.OKTAY ALNIAK            | BİLGİN KAFTANOĞLU<br>GAZİ ÜNİVERSİTESİ  | Constitutive equations in the field of plastic and super plastic behaviors of materials modelling of deformation and microstructural changes in p/m | 1990 |
| 5  | RAIF TUNA BALKAN          | BİLGİN KAFTANOĞLU                       | Modelling, Trajectory Planning and Control of Computer Controlled Manipulators  | 1988 |

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| 4 | MEHMET ALİ SAHİR ARIKAN | BİLGİN KAFTANOĞLU | Computer-Aided Dynamic Modelling of Spur Gears   | 1987 |
| 3 | SUHA ORAL               | BİLGİN KAFTANOĞLU | Euler Solver, Finite Difference, Time-Marching, Characteristic Method                    | 1987 |
| 2 | BİROL KILKIŞ            | BİLGİN KAFTANOĞLU | Theoretical and Experimental Investigation of the Radial-Drawing Region of Square Blanks | 1980 |
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| 75                          | ASUDE AYDOĞAN         | BİLGİN KAFTANOĞLU                   | Performance of Boron Nitride Coatings for Biomedical Applications                                      | 2022 |
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| 73                          | TUNÇ SAFA ALTUN SARAY | BİLGİN KAFTANOĞLU                   | Optimization of Roll Formed Beams Used in Ceiling Construction   | 2018 |
| 72                          | TUĞÇE HACALOĞLU       | BİLGİN KAFTANOĞLU                   | Characterization of Boron Nitride Coatings   | 2016 |
| 71                          | CANSU ERGENE          | BİLGİN KAFTANOĞLU                   | Development and Investigation of Inorganic and Organic Smart Surfaces for Anti-Biofouling Applications | 2014 |
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| 69                          | SERAP ÇAĞLAR ALKAN    | BİLGİN KAFTANOĞLU                   | Friction Analysis in Hot Forging Process   | 2012 |
| 68                          | GÖKHAN ÇELİK          | BİLGİN KAFTANOĞLU                   | Experimental Investigation of Influence Parameters on Forming Limit Diagrams of Aluminum Alloys        | 2011 |
| 67                          | EMRE ŞAHİN            | KAHRAMAN ALBAYRAK BİLGİN KAFTANOĞLU | Conceptual Design Testing and manufacturing of an industrial type electro-hydraulic vacuum sweeper     | 2011 |
| 66                          | BURAK DOĞAN           | REŞİT SOYLU BİLGİN KAFTANOĞLU       | Development of a two-fingered and a four-fingered robotic gripper                                      | 2010 |
| 65                          | BERKAY ŞANAY          | SUHA ORAL BİLGİN KAFTANOĞLU         | prediction of plastic Instability and forming limits in sheet metal forming                            | 2010 |
| 64                          | ONUR TAYLAN           | DEREK BAKER BİLGİN KAFTANOĞLU       | Numerical modeling and performance analysis of solar-powered ideal adsorption cooling systems          | 2010 |

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| 62 | SERHAT<br>YALÇIN         | SUHA ORAL<br>BİLGİN KAFTANOĞLU             | Analysis and modeling of plastic wrinkling in deep drawing   | 2010 |
| 61 | BUKET AYGÜN              | KAHRAMAN<br>ALBAYRAK<br>BİLGİN KAFTANOĞLU  | Conceptual Design and Analysis of an Industrial Type Vacuum Sweeper  | 2009 |
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| 57 | HAKAN<br>BAYRAKTAR       | BİLGİN KAFTANOĞLU                          | Development of A Stereo Vision System for An Industrial Robot  | 2004 |
| 56 | MAHİR CİHAN<br>CENGİZ    | BİLGİN KAFTANOĞLU                          | Software Development for Man-Machine Interface for An Industrial Robot   | 2003 |
| 55 | OYKUN EREN               | BİLGİN KAFTANOĞLU                          | Production, Assembly and Application of an Industrial Robot  | 2001 |
| 54 | ÖZGÜR<br>BEKİROĞLU       | BİLGİN KAFTANOĞLU                          | Problems in Implementing QS-9000 and the Degree of Readiness of the Smes   | 1999 |
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| 44 | ERAY ULUGÜL            | HALUK DARENDELİLER BİLGİN KAFTANOĞLU | Computer Aided Optimal Design of Spur and Helical Gears   | 1997 |
| 43 | BÜLENT ÖNALIR          | TUNA BALKAN BİLGİN KAFTANOĞLU        | Computer Aided Simulation of Injection Molding Process for Thermoplastic Materials                                      | 1997 |
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| 35 | NİYAZİ ULUDAĞ          | BİLGİN KAFTANOĞLU                    | Design and Construction of a Six Degrees of Freedom Industrial Robot  | 1989 |
| 34 | MUHARREM KAYNAKÖZ      | BİLGİN KAFTANOĞLU                    | Integration of Computer Programs for Power Transmission Elements  | 1988 |
| 33 | ALİ DOĞRUSÖZ           | BİLGİN KAFTANOĞLU                    | First Stage Development of a 2-D Computer-Aided Drawing Package   | 1988 |
| 32 | OKTAY TATAR            | BİLGİN KAFTANOĞLU                    | Computer Aided Material Data Processing and Acquisition   | 1988 |
| 31 | KAMİL LALELİ           | BİROL KILKIŞ BİLGİN KAFTANOĞLU       | Computer Aided Design of Rigid and Flexible Mechanical Couplings  | 1988 |
| 30 | ÖZCAN KAHRAMANGİL      | BİROL KILKIŞ BİLGİN KAFTANOĞLU       | Computer Aided Design of Bevel Gears  | 1988 |
| 29 | ÖMER OĞUZ KAYA         | BİROL KILKIŞ BİLGİN KAFTANOĞLU       | Computer Aided Analysis of Axisymmetric Ring Forging  | 1988 |
| 28 | OYA YAŞI (ÇINARLI)     | BİLGİN KAFTANOĞLU                    | Computer Aided Design of Spur and Helical Gears   | 1987 |
| 27 | METİN KARAYAKA         | BİLGİN KAFTANOĞLU                    | Computer Aided Modelling of Material Properties in Plastic Range  | 1987 |
| 26 | CİHAT AKSOY            | BİLGİN KAFTANOĞLU                    | Computer Aided Analysis and Modelling of Wire-Drawing   | 1987 |



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| 25 | YAVUZ<br>KADIOĞLU          | BİLGİN KAFTANOĞLU | Computer Aided Development of<br>Material Models  | 1986 |
| 24 | İBRAHİM<br>ÇAĞLAR<br>ŞAHİN | BİLGİN KAFTANOĞLU | Computer-Aided Design of Brakes<br>and Clutches   | 1986 |
| 23 | AHMET<br>CÜNEYT<br>YÜRÜR   | BİLGİN KAFTANOĞLU | Computer Aided Testing of Metals at<br>High Temperatures and Strain-Rate  | 1986 |
| 22 | REŞİT SOYLU                | BİLGİN KAFTANOĞLU | Specific Energy Optimization in<br>Flywheels  | 1982 |
| 21 | HALİL SEDAT<br>ERGÜR       | BİLGİN KAFTANOĞLU | Optimized Computer-Aided Design of<br>Gear Transmissions for Perpendicular<br>Shafts  | 1981 |
| 20 | HIFZI ARDIÇ                | BİLGİN KAFTANOĞLU | Optimized Computer Aided Design of<br>Journal Bearings  | 1981 |
| 19 | MEHMET ALİ<br>SAHİR ARIKAN | BİLGİN KAFTANOĞLU | Computer-Aided Design of Shafts and<br>Selection of Antifriction Bearings   | 1981 |
| 18 | FERİDUN<br>KIZILCAN        | BİLGİN KAFTANOĞLU | Setting Up of Ultrasonic Rotary<br>Machine and Investigation of its<br>Machining Characteristics  | 1981 |
| 17 | MUSTAFA<br>UNAN            | BİLGİN KAFTANOĞLU | Design and Construction of a Non-<br>Slipping Wire Drawing Machine  | 1980 |
| 16 | AHMET<br>ERMAN<br>TEKKAYA  | BİLGİN KAFTANOĞLU | Complete Numerical Solution of the<br>Axisymmetrical Deep-Drawing<br>Problem  | 1980 |
| 15 | BAHRİ<br>TÜRKMEN           | BİLGİN KAFTANOĞLU | Optimized Computer-Aided Design of<br>Gear-Transmissions  | 1979 |
| 14 | ŞİNASİ ÇOLAK               | BİLGİN KAFTANOĞLU | Design of Conveying and Hot Water<br>Generation System of a Bottling Plant  | 1979 |
| 13 | ERMAN<br>ÖZDAMAR           | BİLGİN KAFTANOĞLU | Design and Construction of a<br>Hydraulic Bulge Tester and<br>Preliminary Experiments   | 1978 |
| 12 | HAKKI SUHA<br>ÜNSAL        | BİLGİN KAFTANOĞLU | Design of a Bottle Filling and Capping<br>Machine   | 1978 |
| 11 | MEVLUT<br>SEMİH ÜNLÜ       | BİLGİN KAFTANOĞLU | Design of a Bottle Washing Machine  | 1978 |
| 10 | VURAL<br>ÖZSALMAN          | BİLGİN KAFTANOĞLU | Numerical Solution of the Airy Stress<br>Function for Plane Stress and Plane<br>Strain Problems in Polar Coordinates<br>When the Effects of Temperature and<br>Body Forces are Negligible | 1974 |
| 9  | AHMET KENAN<br>SIVACI      | BİLGİN KAFTANOĞLU | Determination of Plastic Properties<br>and Anisotropy Parameters of Some<br>Ferrous and Non-Ferrous Materials,<br>Produced in Turkey, at Elevated<br>Temperatures                         | 1974 |
| 8  | CANDAR<br>YOSUNÇIĞIR       | BİLGİN KAFTANOĞLU | Design and Construction of a Tube<br>Testing Apparatus and Investigation<br>of Plastic Deformation Under<br>Hydraulic Pressure  | 1974 |
| 7  | MEHMET<br>YAVUZ YÜCEL      | BİLGİN KAFTANOĞLU | Theoretical Analysis of the Tube<br>Drawing Process and Design of a<br>Tube Drawing Bench   | 1974 |

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| 6 | BİROL KILKIŞ            | BİLGİN KAFTANOĞLU | Computer Aided Design of Heating Systems of Buildings   | 1973 |
| 5 | MEHMET ERKAN EDİS       | BİLGİN KAFTANOĞLU | Development of a Computer Program for the Numerical Solution of Hydraulic Bulging of a Flat Isotropic Diaphragm   | 1972 |
| 4 | MEHMET ENDER ÇAKIROĞLU  | BİLGİN KAFTANOĞLU | A Thesis Study on the Determination of the Properties of Some Ferrous Materials Produced in Turkey, in the Plastic Range                                    | 1971 |
| 3 | HÜSEYİN BAKİ ÇETİNYÜREK | BİLGİN KAFTANOĞLU | An Investigation on the Determination of the Properties of Certain Non-Ferrous Materials Produced in Turkey, in the Plastic Range                           | 1971 |
| 2 | TANER YAZGAN            | BİLGİN KAFTANOĞLU | Design and Construction of a Hydraulic Bulge Tester   | 1971 |
| 1 | GÜVEN AKSU              | BİLGİN KAFTANOĞLU | Numerical Solution of the Biharmonic Equation for Plane Stress and Plane Strain Problems When the Effects of Body Forces and the Temperature are Negligible | 1971 |