Yu Yangui (Had been used in the world by the name --- Yangui Yu or Y. G. Yu, or Y. Yangui or Y. YU)

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Curriculum Vitae (Yu Yangui)

From 1959 to 1965, as an experimental technical personnel and teacher, I was engaged in tractors and cars professional teaching and research works, where I was at agricultural mechanics department of Shenyang Agricultural University in Liaoning Province, China

From 1965 to 1987, as an engineer, I was engaged in engineering technology works of design, installation, maintenance on the agricultural and the chemical machinery, where was at machinery and fertilizer [factorie](app:ds:factory)s in Liaoning Province and Zhejiang Province, China

From 1987 to 2004, was engaged in the teaching and research works as a professor in Wenzhou University, Pluralistic professor of Zhejiang Science & Technology University, Pluralistic professor of Wenzhou Teachers College, Honorary Director of Institute of Computer Application, where was in Zhejiang Province, China

From 2005 to Now, is engaged in the teaching and research works as a professor at Zhejiang Guangxin New Technology Application Academy of Electromechanical and Chemical Engineering in Zhejiang Province, China

Achievements in the field of engineering technology

1. As a chief engineer of the whole chemical fertilizer factory, responsible for built a chemical fertilizer plant of all mechanical, electrical and instrumentation equipment installation works.

2. Completed the renovation design over 10 sets of reciprocating compressor.

3. Completed many sets of pressure vessel design.

Now the main research areas:

1. The structural integrity design, the optimized design, intelligent control, energy saving and remanufacturing technologies on the reciprocating compression.

2. Their cross relationship and engineering application on the fatigue-damage-fracture strength and life problems among the mechanics, the materials and the mechanical structures disciplines

I have published over 100 papers, including internationally published more than 30 articles in English, papers published in recent years as follows:

[1] Yangui Yu. The Calculations of Evolving Rates Realized with Two of Type Variables in Whole Process for Elastic-Plastic Materials Behaviors under Unsymmetrical Cycle. Mechanical Engineering Research. Canadian Center of Science and Education 2012; 2. (2):77-87; ISSN 1927-0607(print) E-ISSN 1927-0615 (Online).

[2] Yu Yangui, Sun Yiming, MaYanghui and XuFeng. The Computing of intersecting relations for its Strength Problem on Damage and Fracture to Materials with short and long crack. 2011); In: International Scholarly Research Network ISRN. Mechanical Engineering Volume, Article ID 876396. <http://www.hindawi.com/isrn/me/>

[3] Yu Yangui, MaYanghuia. The Calculation in whole Process Rate Realizedwith Two of Type Variableunder symmetrical cyclefor Elastic-Plastic Materials Behavior. In CD, ID 510. 19th European Conference on Fracture Kazan, Russia, 26-31 August, 2012.

[4] Yu. Yangui, Bi Baoxiang, MaYanghau, Xu Feng. Damage Calculations in Whole Evolving Process Actualized for the Materials Behaviors of Structure with Cracks to Use Software Technique. In: International Conference on Fracture Proceeding. Ottawa, Canada. 2009; 12-19. CD, (Author Yu Yangui).

[5] YU Yangui, LIU Xiang, ZHANG Chang sheng and TAN Yanhua, Fatigue damage calculated by Ratio-Method Metallic Material with small crack under un-symmetric Cyclic Loading, Chinese Journal of Mechanical Engineering Vol.19, No2, P.312-315, 2006.

[6] Yu Yangui. Studies and Applications of Three Kinds of Calculation Methods by Describing Damage Evolving Behaviors for Elastic-Plastic Materials，《Chinese Journal of Aeronautics》, 2006，19（1）52－58。

[7] Yangui YU, Fatigue Damage of Materials with Small Crack Calculated by the Ratio Method under Cyclic , Macro-, Meso-, Micro- and Nano-Mechanics of Materials. Trans Tech Publications, P.80-86, 2005.

[8] Yu Yangui, Jiang Xiaoluo, Chen Jianyu, Wu Zhiyuan, The fatigue damage Calculated with Method of the Multiplication Fatigue 2002, Proceedings of the Eighth International fatigue Congress, Volume 5/5 p2815-2822, 2002.

[9] Yu Yangui, Li Ying, Wan Changjiang, Xu feng, Ma Yanghui, Sun Yiming, Integrate Method by Fatigue Fracture Calculation with Virtual-Saving operation for Power Machinery. ENGINEERING STRUCTURAL INTEGRITY: RESEARCH, DEVELOPMENT AND APPLICATION, Proceedings Of the UK Forum for Engineering Structural Integrity’s Ninth International Conference on Engineering Structural Integrity Assessment, Beijing, 2007, 121-124.

[10] YU Yangui, Fatigue Damage Calculated by the Ratio-Method to Materials and Its Machine Parts, Chinese Journal of Aeronautics (English Edition), Vol.16 No.3 157-161, 2003.

[11] Y. G. Yu, W. G. Pan and Z. H. Li, Correlations among curve equations and materials parameters in the Whole process on fatigue-damage fracture of components，Key engineering materials，TRANS TECH PUBLICATIONS, Vol.145-149, part 2. 1997－12

[12] YU Yangui, MA Yanhui, Sun Ying, CEN Gang, Techniques by Software Accomplish the Optimization Design and Calculation of Reciprocating Compressors, Integrated Design and Process Technology, IDPT-2005, Printed in the United States of America, 439-443.

[13] Yangui Yu, Zhihua Li,　Baoxiang Bi, Yanghui Ma, Feng Xu, To accomplish Integrity Calculations of Structures and Materials with Calculation program in Whole Evolving Process on Fatigue-Damage-Fracture. ENGINEERING STRUCTURAL INTEGRITY: RESEARCH, DEVELOPMENT AND APPLICATION, Proceedings Of the UK Forum for Engineering Structural Integrity’s Ninth International Conference on Engineering Structural Integrity Assessment, Beijing, 2007, 180-183.

[14] Y. G. Yu, Z. H. Li and W. G. Pan. Estimations of total life in whole fatigue-damage –fracture process of structures and their components under many-stage loading conditions，Key engineering material，1997 part 2, Vol.145-149, TRANS TECH PUBLICATIONS.

[15] Yangui Yu, Gang Cen, Yiming Sun, Yanghui Ma, Calculating Programs of Reciprocating Compressors, Proceedings of the 5th International Conference on Compressor and Refrigeration ICCR 2005, XI’AN JIAOTONG UNIVERSITY PRESS, 190-197 .

[16] Yangui Yu, Yanghui Ma. Integrte method by fatigue fracture calculation with Virtual design and monitor analysis to realize safety energy-saving operation for power machinery. ENGINEERING STRUCTURAL INTEGRITY: RESEARCH, DEVELOPMENT AND APPLICATION, Proceedings Of the UK Forum for Engineering Structural Integrity’s Ninth International Conference on Engineering Structural Integrity Assessment, Beijing, 2007, 121-124.

[17] Y. YU, Y. MA, Y. SUN, G. CEN. Techniques by Software Accomplish the Optimization Design And Calculation of Reciprocating Compressors. Integrated Design and Process Technology. IDPT-2005. Printed in United States of America, June, 2005. ©2005 Society for Design and Process Science, 439~443.

[18] Y.G.Yu and E.J.Zhao (1999), Calculations to Damage Evolving Rate under Symmetric Cyclic Loading, FATIGUE'99, Proceedings of the Seventh International Fatigue Congress, Beijing, P. R. China, P. 1137

[19] Yu Yangui，Calculations To Its Fatigue Damage Fracture And Total Life Under Many-Stage Loading For A Crankshaft. Chinese Journal of Mechanical Engineering》, 1994. 7(4) : 281-288.

I had won software certificate of 4 pieces with the national copyright administration to the computer optimization design and automatic control on the reciprocating compressors.

1) Certificate number: 2004 sr11163; 2) Certificate number: 2004 sr11162;

3) Certificate number: 2006 SR01800; 4) Certificate number : 2006 SR01877.

I have applied for national patent invention patent of 3 pieces.

1) "Can adjustable Energy-saving compressor", patent number：201010519529.6；

2) “The intelligent monitoring and the soft measurement technology on reciprocating compressors”，

patent number ：“201010519534.7”；

3) “Remanufacturing technology of reciprocating compressor” patent number：2012102272578.3