| | RESEARCH REPORT |
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| Research Title | A posteriori error estimation and its application to adaptive mesh refinement using transition element |
| Research Field | Finite Element Method (Ref. no: FE-01) |
| Research Period | March 1995 ~ Feb. 1996 |
| Related Publications | K. Park and D. Y. Yang, "A posteriori error estimation and its application to adaptive mesh refinement in the rigid-plastic finite element method", <i>J. of Kor. Soc. Mech. Engng. (A)</i> , Vol. 22, No. 7, pp. 1278 ~ 1286 (1998). |
| Summary | Posteriori error estimation for rigid-plastic finite element formulation Adaptive mesh refinement scheme using transition element |
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| RESEARCH REPORT | | | |
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| Research Title | Domain decomposition using substructuring method and its application to parallel computation | | |
| Research Field | Finite Element Method (Ref. no: FE-02) | | |
| Research Period | March 1996 ~ Feb. 1997 | | |
| Related Publications | K. Park and D. Y. Yang, "Domain decomposition using substructuring method and parallel computation of the rigid-plastic finite element analysis", <i>J. of Kor. Soc. Tech. Plasticity</i> , Vol. 7, No. 5, pp. 474 ~ 480 (1998). | | |
| Summary | Domain decomposition (substructuring method) Parallel computation using Parallel Virtual Machine (PVM) library Application to rigid-plastic FE analysis | | |
| | Slave 1 Task 1 Task 2 Slave 1 Task 1 Task 2 Slave 1 Task 1 Task 1 | | |
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| | | RESEARCH REPORT |
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| | Research Title | Development of finite element analysis system with automatic remeshing and adaptive refinement |
| | Research Field | Finite Element Method (Ref. no: FE-04) |
| | Research Period | Dec. 1995 ~ Oct. 1998 |
| | Related Publications | D. Y. Yang et al, "Development of automatic design and analysis system for forging die", Annual report to The Ministry of Commerce, Industry, and Energy, Korean Government (1998) |
| | Summary | Development of finite element analysis system based on MS-Windows platforms Automatic remeshing with adaptive refinement Integration of the FE simulation module with automatic die design & process design module |



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