

**Indian Institute of Technology Delhi**  
**Central Library**

November 11, 2014

**Subject: Weeding-out/Disposal of old theses from the Central Library, IIT Delhi**

The Central Library, IIT Delhi is in the process to dispose-off 213 theses from the Theses section. It is proposed to offer these theses to the Institutes/Universities/Colleges as a step towards their disposal.

These theses are available on the Ground Floor in the Theses section of the Central Library (<https://library.iitd.ac>). The representative from interested Institutes/Universities/Colleges may visit the Central Library, IIT Delhi, along with the letter from the University Librarian/Principal/HOD to get these theses from 12.11.2024 to 19.11.2024 during office hours 10 AM to 4:00 PM. These books will be disposed off on first-cum-first serve basis. Institutions desirous of getting the discarded theses would be responsible for charges incurred on the post.



(Vanita Khanchandani)

Assistant Librarian (SG) & Incharge

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**LIST OF THESES/DISSERTATIONS/LECTURE NOTES/PROJECT REPORTS**  
**PROPOSED FOR WEEDING OUT**

| S.No | Accn. No. | Title  | Researcher/ Author         | Programme (Ph.D./Master)    | Year | Department/ University                | Cost ₹ |
|------|-----------|--|----------------------------|-----------------------------|------|---------------------------------------|--------|
| 1    | 112971    | Multispectral remote-sensing techniques applied to salinity and drainage problems in the Columbia basin                      | Prentice, Virginia Lee     | PhD                         | 1972 | University of Michigan                | 796.88 |
| 2    | 115659    | Microcomputer-based information storage and retrieval systems  | Hussein Mustafa, Suleiman  | PhD                         | 1985 | University of Pittsburgh              | 818.80 |
| 3    | 117804    | Uniaxial tensile deformation and fracture of dual-phase steels   | Su, Yean-Liang,            | PhD                         | 1986 | Brown University                      | 876.57 |
| 4    | 120267    | Integer programming Algorithm for the Resource-constrained project scheduling problems                                       | Talbot, Frederick Brian    | PhD                         | 1976 | Pennsylvania State University         | 994.89 |
| 5    | 120268    | Branch and bound algorithm for a general class of multiple resource-constrained scheduling problems                          | Stinson, Joel p.           | PhD                         | 1976 | University of North Carolina          | 994.89 |
| 6    | 120269    | Analysis and design of liquid absorbent/desiccant cooling/dehumidification systems for low grade thermal energy applications | Peng, Chung Shiang Patrick | PhD                         | 1980 | University of Texas                   | 994.89 |
| 7    | 120270    | Exact algorithm for the multiple constrained-resource projects scheduling problem  | Davis, Edward W.           | PhD                         | 1968 | Yale University                       | 994.89 |
| 8    | 141167    | Performance of brick masonry subjected to in-plane loading   | Dhanasekar, M              | PhD                         | 1985 | University of New Castle              | 967.50 |
| 9    | G11960    | Computed Hydrographs of catchments   | Chander, Subhash           | PhD                         | 1965 | University of Manchester              | 0      |
| 10   | G19118    | Adaptive design of a class of electrical networks using Mathematical Optimization  | Nandi, Nanda Dulal         | Doctor of Technical Science | 1970 | Swiss Federal Institute of Technology | 0      |
| 11   | G19867    | Ph.D. theses submitted at Indian Institute of Technology, Madras during its first to twenty fifth convocations (1964-1988)   | IIT Madras                 | Abstracts of PhD theses     | 1989 | Central Library, IIT Madras           | 0      |

|    |        |   |                           |        |      |                             |        |
|----|--------|---|---------------------------|--------|------|-----------------------------|--------|
| 12 | G20095 | Optical investment planning for electric power generation   | Noonan, Francis           | PhD    | 1973 | University of Massachusetts | 47.50  |
| 13 | R-2040 | Attenuation in microwave acoustic transducers and resonators  | Wauk, Michael. T.         | PhD    | 1969 | Standford University        | 237.25 |
| 14 | R-2058 | Heat transfer to refrigerants boiling inside plain tubes and tubes with internal turbulators  | Lavin, John Gerard        | Sc.D.  | 1963 | University of Michigan      | 39.90  |
| 15 | R-2115 | Investigation of the effects of swirl on the flow regimes and performance of annular diffusers with equal inner and outer cone angles | Srinath, T                | Master | 1968 | Univ. of Waterloo           | 128.35 |
| 16 | R2028  | Psychological factors in friendship choice and rejection  | Shapiro, David            | PhD    | 1953 | University of Michigan      | 18.75  |
| 17 | R2029  | Planning of hydrothermal electric power systems   | Petersen, Edward Richard  | PhD    | 1966 | Stanford University         | 24.00  |
| 18 | R2030  | Optimum operation of a multi-reservoir water supply system  | Amir, Reuven              | PhD    | 1967 | Standford University        | 24.00  |
| 19 | R2031  | Introduction of hydrologic risk concepts to optimization of water resource system design  | Bathke, William Leonard   | PhD    | 1967 | Texas A&M University        | 24.00  |
| 20 | R2032  | Mathematical Programming model for long-range river basin planning with emphasis on the Colorado River basin                          | Heaney, James Patrick     | PhD    | 1968 | Northwestern University     | 37.75  |
| 21 | R2034  | Properties of roll waves  | Miya, Masayoshi           | PhD    | 1970 | University of Illinois      | 37.75  |
| 22 | R2041  | Acoustic generation with reactively deposited piezoelectric thin films  | Malbon, Robert Michael    | PhD    | 1968 | Stanford University         | 41.97  |
| 23 | R2168  | Unsteady natural convection on a vertical plate   | Yau, Fun-Pei              | PhD    | 1975 | Purdue University           | 0      |
| 24 | TH1001 | Goal programming model for improved transportation problem solution   | Schniederjans, Marc James | PhD    | 1978 | Saint Louis University      | 364.64 |
| 25 | TH1002 | Evaluation for existing travel demand estimation procedure for long term strategic  | Rathbone, Daniel Benjamin | PhD    | 1979 | Texas A&M University        | 381.60 |

|    |        |   |                          |        |      |   |        |
|----|--------|---|--------------------------|--------|------|---|--------|
|    |        | urban transportation planning   |                          |        |      |   |        |
| 26 | TH1003 | Urban transportation policy planning methodology: system dynamics approach  | Tran, Thanh Khanh        | PhD    | 1979 | Virginia Polytechnic Institute and State University | 381.60 |
| 27 | TH1004 | Data base concurrency control and recovery in local broadcast networks  | Wilkinson, William Kevin | PhD    | 1981 | University of Wisconsin Madison                     | 407.04 |
| 28 | TH1005 | Strategies for enhancing concurrency and managing deadlocks in database locking protocols   | Mohan, C.                | PhD    | 1981 | University of Texas                                 | 407.04 |
| 29 | TH1037 | Application of finite elements method to the determination of nonlinear static and dynamic responses of underwater cable structures               | Webester, Ronald Lewis   | PhD    | 1976 | Cornell University                                  | 289.60 |
| 30 | TH1049 | Numerical method for solving the full potential equations   | Purvis, James Wayne      | PhD    | 1977 | Auburn University                                   | 354.41 |
| 31 | TH1050 | Theoretical study of the fundamental dynamic characteristics of the interaction between Urban land use development and transportation development | Vaziri, Manouchehr       | PhD    | 1980 | University of California                            | 397.11 |
| 32 | TH1051 | Balanced Urban ground passenger transportation with respect to energy, demand and income: an approach for bus transit supply system planning      | Chang, Myung - Soon      | PhD    | 1980 | North California State University                   | 397.11 |
| 33 | TH1084 | Inventory control for a small scale unit  | Sihag, Asha Ram          | M.Tech | 1984 | IIT Delhi   | 0      |
| 34 | TH1091 | Lot sizing technique  | Yilmaz, Cenigiz          | PhD    | 1981 | University of Iowa                                  | 360.00 |
| 35 | TH1117 | Heat transfer to liquids boiling under pressure   | Cichelli, Mario T        | PhD    | 1944 | John Hopkins University                             | 103.35 |
| 36 | TH1119 | Master scheduling and component lot sizing decisions in resource-constrained material requirements planning environments                          | Bahl, Harish Chander     | PhD    | 1980 | Ohio State University                               | 423.15 |

|    |        |  |                                       |       |      |                                       |        |
|----|--------|--|---------------------------------------|-------|------|---------------------------------------|--------|
| 37 | TH1146 | Rectifying properties photovoltaic effects and electrochemical studies of phthalocyanine thin films.   | Fan, Fu-Ren Frank                     | PhD   | 1978 | University of Illinois                | 322.50 |
| 38 | TH1147 | Copper phthalocyanine photoelectrochemistry: Optimization of electron transfer kinetics through an investigation of solid state and electrochemical properties | Ayers, William Mclean                 | PhD   | 1980 | University of Pennsylvania            | 348.75 |
| 39 | TH1148 | Virus removal by chemical coagulation  | Chaudhuri, Malay                      | PhD   | 1969 | University of Illinois                | 178.13 |
| 40 | TH1169 | Analysis of binding behaviour of contractors in various economic conditions using utility assessment   | Hanim, Elias Nicolas and Lesage, Yves | M.Sc. | 1975 | Massachusetts Institute of Technology | 393.60 |
| 41 | TH1170 | Heat transmission to boiling pure and mixed liquids  | Perry, Charles William                | PhD   | 1940 | Johns Hopkins University              | 53.20  |
| 42 | TH1171 | United approach to the mass balancing of rotating flexible shafts  | Darlow, Mark Sandor                   | PhD   | 1980 | University of Florida                 | 432.45 |
| 43 | TH1190 | Event based specification and verification of distributed system   | Chen, Bo -Shoe                        | PhD   | 1982 | University of Maryland                | 395.92 |
| 44 | TH1191 | Model for competitive bidding under uncertainty  | Ortega-Reichert, Armando              | PhD   | 1967 | Standford University                  | 215.52 |
| 45 | TH1192 | Competitive bidding in the construction industry   | Broemser, Gary Milton                 | PhD   | 1968 | Standford University                  | 338.99 |
| 46 | TH1194 | Bayesian approach to computer bidding  | Caid, Larry Andrew                    | PhD   | 1966 | Ohio State University                 | 215.52 |
| 47 | TH1195 | Class of stochastic bidding problems   | Gupta, Rajendra Kumar                 | PhD   | 1974 | University of Rochester               | 352.46 |
| 48 | TH1197 | Behaviour of plain concrete under variable load histories  | Demir, Karsan Ismail                  | PhD   | 1968 | Rice University                       | 351.07 |
| 49 | TH1198 | Effects of variation in load history on cyclic response of concrete flexural members   | Hwang, Tze-How                        | PhD   | 1982 | University of Illinois                | 361.60 |
| 50 | TH1199 | Effects of web openings in reinforced concrete beams subjected to cyclic loads   | Lopes, Rogerio Coelho                 | PhD   | 1983 | University of South Carolina          | 451.47 |

|    |        |   |                                 |         |      |                                   |        |
|----|--------|---|---------------------------------|---------|------|-----------------------------------|--------|
| 51 | TH1200 | Time dependent deflections in reinforced concrete beams cyclic loading  | Carreira, Domingo Jose          | PhD     | 1983 | Illinois Institute of Technology  | 451.47 |
| 52 | TH1201 | Information economy (Vol. I)  | Porat, Marc Uri                 | PhD     | 1976 | Standford University              | 372.00 |
| 53 | TH1202 | Information economy (Vol. II)   | Porat, Marc Uri                 | PhD     | 1976 | Standford University              |        |
| 54 | TH1271 | Capacity Sensitive lot sizing decision in material requirement planning system  | Harl, Ernst Johannes            | PhD     | 1980 | Ohio State University             | 359.91 |
| 55 | TH1272 | Development and application of decision rules for buffering against demand uncertainty in a time phased recorder point system | Callarwan, Thomas Evan          | PhD     | 1979 | Purdue University                 | 46.44  |
| 56 | TH1273 | Production planning problems for flexible manufacturing systems   | Stecke, Kathryn Elizabeth       | PhD     | 1981 | Purdue University                 | 369.88 |
| 57 | TH1274 | Integrated production planning model for multiproduct parallel processor environments   | Oliff, Michael David            | PhD     | 1982 | Clemson University                | 369.88 |
| 58 | TH1275 | Hierarchical multistage, Mult objective impact analysis   | Gomide, Fernando Antonio Campos | PhD     | 1983 | Case Western Reserve University   | 389.15 |
| 59 | TH1276 | Project for the manufacture of 30 centreless grinders per working shift per month   | Ajwani, Niranjana G.            | B. Tech | 1969 | Jiwaji University Gwalior         | 0      |
| 60 | TH128  | Non-periodic vibrations of layered viscoelastic plates  | Jones, Irving Wandell           | PhD     | 1967 | Polytechnic Institute of Brooklyn | 67.00  |
| 61 | TH1289 | Dynamic analysis of flexible spatial mechanisms and robotic manipulators  | Sunada, Wallace Hikaru          | PhD     | 1981 | University of California          | 436.80 |
| 62 | TH1290 | Dynamic analysis of spatial mechanisms  | Schaffa, Ronald Ben             | PhD     | 1984 | University of Pennsylvania        | 509.60 |
| 63 | TH130  | Spot cooling and heating of surfaces with high velocity impinging air jets  | Walz, Dieter Richard            | B. Tech | 1964 | Standford University              | 0      |
| 64 | TH131  | Generalized topological formulas for linear network functions   | Prabhakar, A.                   | PhD     | 1967 | IISc                              | 0      |
| 65 | TH1326 | Non-iterative algorithm for solving special types of transportation problems  | Lev, Benjamin                   | PhD     | 1970 | Case Western Reserve University   | 844.04 |

|    |        |  |                            |                         |      |                                   |        |
|----|--------|--|----------------------------|-------------------------|------|-----------------------------------|--------|
| 66 | TH1347 | Turbulent mixing with complex reactions in unpremised tubular reactors                             | Kuo- Tseng, LI             | PhD                     | 1985 | Carnegie Mellon University        | 586.30 |
| 67 | TH1388 | Some aspects of risk analysis for decision making in engineering projects management               | Inyang, Esseh David        | PhD                     | 1983 | University of Manchester          | 721.11 |
| 68 | TH1389 | Development of contract strategies for construction projects                                       | Perry, John G              | PhD                     | 1985 | University of Manchester          | 721.11 |
| 69 | TH1402 | Multiobjective optimization of manufacturing systems   | Souemon, Takakuwa          | PhD                     | 1982 | Pennsylvania State University     | 379.20 |
| 70 | TH1403 | Queuing models for flexible manufacturing systems subject to resource failure                      | Vinod, Balakrishnan        | PhD                     | 1983 | Purdue University                 | 398.95 |
| 71 | TH1404 | Risk allocation in construction contracts  | Porter, C.E                | M.Sc.                   | 1981 | University of Manchester          | 794.13 |
| 72 | TH1417 | Planning and control of multi-projects   | Deshpande, Avinash D       | M.Tech                  | 1983 | IIT Bombay                        | 342.00 |
| 73 | TH1430 | Model for debris flow  | Johnson, Arvind. M         | PhD                     | 1965 | Pennsylvania State University     | 273.21 |
| 74 | TH1480 | Abstracts of Ph. D. theses: Vol II- technology and humanities & social sciences                    |                            | Abstracts of PhD theses | 1980 | IIT Madras                        | 0      |
| 75 | TH1481 | Abstracts of Ph. D. theses: Vol III- sciences  |                            | Abstracts of PhD theses | 1987 | IIT Madras                        | 0      |
| 76 | TH1482 | Abstracts of Ph. D. theses: Vol IV- technology and Humanities & Social Sciences                    |                            | Abstracts of PhD theses | 1987 | IIT Madras                        | 0      |
| 77 | TH1499 | Diffusion of information among the working poor  | Chatman, Elfreda Annmary   | PhD                     | 1983 | University of California          | 574.89 |
| 78 | TH1500 | Process for the design of information systems for the academic administrator                       | Sekula, Francis Joseph     | PhD                     | 1984 | University of Pittsburgh          | 637.50 |
| 79 | TH1501 | Towards designing a computerized information system for management and line workers in social work | Monnickendan, Menachem. R. | PhD                     | 1983 | University of Pittsburgh          | 574.89 |
| 80 | TH1572 | Optical properties and solar selectivity of inhomogeneous metal-insulator coatings                 | Niklasson, Gunnar Axel     | PhD                     | 1982 | Chalmers University of Technology | 546.43 |
| 81 | TH1627 | Recent advances in bioprocess engineering  | Ghose, T.K.                | CEP, Lecture Notes II   | 1988 | IIT Delhi                         | 0      |

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|----|--------|--|----------------------|----------------------|------|---|---------|
| 82 | TH1628 | Recent advances in bioprocess engineering  | Ghose, T.K.          | CEP, Lecture Notes I | 1988 | IIT Delhi   | 0       |
| 83 | TH1629 | Recent advances in bioprocess engineering  | Ghose, T.K.          | CEP, Lab Manual      | 1988 | IIT Delhi   | 0       |
| 84 | TH1630 | Course on project implementation, monitoring and evaluation  | Natarajan, P.        | Course Report        | 1989 | IIT Delhi   | 0       |
| 85 | TH1632 | Consequences of the application of a higher order beam theory to the steady state deformation and free vibrations of a moving beam | Fortin, Jose Donato  | PhD                  | 1988 | Ohio State University                               | 941.59  |
| 86 | TH1633 | Structural modification utilising beam elements  | Elliott, Kenny Blair | PhD                  | 1985 | Virginia Polytechnic Institute and State Institute  | 763.93  |
| 87 | TH1644 | Nonlinear analysis and ultimate strength of multi cell reinforced concrete box girder bridges                                      | Seible, Freider      | PhD                  | 1982 | University of California                            | 568.51  |
| 88 | TH1645 | Development of computer-based management information system for higher education in Costa RICA: a proposed model                   | Araya-Martin, Adrian | PhD                  | 1982 | Vanderbilt University                               | 546.43  |
| 89 | TH1698 | Computer integrated machining parameter selection in a job shop using expert systems and algorithms                                | Gopalkrishnan, B.    | PhD                  | 1988 | Virginia Polytechnic Institute and State University | 811.31  |
| 90 | TH1794 | Parabolic partial differential equations subject to nonlocal boundary conditions   | Lin, Yanping         | PhD                  | 1988 | Washington State University                         | 842.82  |
| 91 | TH1843 | Dynamic simulation of flexible robots with prismatic joints  | Pan, Ye-Chen         | PhD                  | 1988 | University of Michigan                              | 842.82  |
| 92 | TH1844 | Dynamic analysis of robotic manipulators with flexible links   | Chang, Liang-Wey     | PhD                  | 1984 | Purdue University                                   | 689.02  |
| 93 | TH1845 | Knowledge based process planning for machining parts   | Chang, Kang J.       | PhD                  | 1989 | University of California                            | 1691.80 |
| 94 | TH1853 | Experimental and theoretical studies on gas cyclone separators operating at high efficiency  | Tran, Thinh Van      | PhD                  | 1981 | University of Minnesota                             | 1759.47 |



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|-----|--------|---|-------------------------------------|-----|------|---|---------|
| 95  | TH1854 | An approximation dynamic analysis of tube structure   | Chang, Petter.Ckun. Po              | PhD | 1982 | University of Illinois                              | 590.59  |
| 96  | TH1882 | Open cycle solid desiccant cooling component models and system simulations  | Jurinak, Jeff Jerome                | PhD | 1982 | University of Wisconsin-Madison                     | 590.59  |
| 97  | TH1884 | Discretization methods for retarded ordinary Differentials equations  | Feldatein, Morley Alan              | PhD | 1964 | University of California                            | 295.20  |
| 98  | TH1905 | Adsorptive drying of organic liquids  | Joshi, Sudhir Ramtirth              | PhD | 1987 | University of Texas                                 | 866.52  |
| 99  | TH1906 | Thermal regeneration of fixed multicomponent adsorption beds  | Huang, Chen-Chia                    | PhD | 1987 | University of Texas                                 | 866.52  |
| 100 | TH1943 | Electric field distribution in three dimensional regions using the finite element method  | Quiroga Sepulveda, Nestor. Gatriel. | PhD | 1984 | Tulane University                                   | 2011.35 |
| 101 | TH1944 | Studies in the optimal synthesis of chemical processing and energy systems  | Papoulas, Soterois A                | PhD | 1982 | Carnegie Mellon University                          | 2011.35 |
| 102 | TH1945 | Mathematical modelling approach to the synthesis of separation sequences  | Lin, Ruey-Jia                       | PhD | 1987 | Columbia University                                 | 2011.35 |
| 103 | TH1964 | Study of liquid spray: mechanism of atomization droplet size velocity and temperature distribution VIA information theory spray interaction with ambient air motion | Li, Xianguo                         | PhD | 1989 | Northwestern University                             | 2068.27 |
| 104 | TH1993 | Design mechanical components with features: representing the form and intent of in-progress design for automated modification and evaluation                        | Nielson, Eric Hilton                | PhD | 1991 | University of Massachusetts                         | 2106.22 |
| 105 | TH1994 | Fault diagnosis and prediction in reciprocating air compressors by quantifying operating parameters   | Feng, Ming-Fa                       | PhD | 1992 | Virginia Polytechnic Institute and State University | 2093.57 |
| 106 | TH2161 | Heuristic-based approach to press tool design and assembly.   | Koroupi, Faroukh                    | PhD | 1989 | University of Birmingham                            | 1680.00 |

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|-----|--------|--|----------------------------|------------------------|------|--------------------------------------|---------|
| 107 | TH2172 | Large plastic deformations by sequential limit analysis  | Hwan, Chung-Li             | PhD                    | 1992 | University of Michigan               | 2089.39 |
| 108 | TH2200 | Object oriented hierarchical paradigm for integrated parametric design and automated two-dimensional quadrilateral mesh generation | Barker, David. Ellis.      | PhD                    | 1993 | University of Utah                   | 2096.00 |
| 109 | TH2201 | Integrated computer aided manufacturing system for sculptured surfaces   | Kim, Kwang-il              | PhD                    | 1993 | University of Illinois               | 2096.00 |
| 110 | TH2202 | Fuzzy rule base tuning for robotic precision assembly  | Gurocak, Hakan Berat       | PhD                    | 1993 | Washington State University          | 2096.00 |
| 111 | TH2203 | Computer aided process planning based on principles and heuristics   | Korde, Uday P              | PhD                    | 1993 | University of Minnesota              | 2096.00 |
| 112 | TH2204 | Automatic tool path generation for numerically controlled machining of sculptured surfaces   | Li, Xiaoxia                | PhD                    | 1993 | University of New Hampshire          | 2096.00 |
| 113 | TH2675 | Finite element model updating and modification for dynamic mechanical structures   | Narayana, Peddi Sai Rama   | M.S(R)                 | 1999 | Dept of Mechanical Engineering, IITD | 0       |
| 114 | TH2747 | Rationalization of distribution network in supply chain context a case   | Bhandari, Vinay            | M.S(R)                 | 2000 | Dept of Mechanical Engineering, IITD | 0       |
| 115 | TH3040 | Leadership style teacher empowerment, and job satisfaction selected catholic elementary schools                                    | Dono-Koulouris, Marilyn J, | PhD                    | 2003 | St. John's University                | 3711.40 |
| 116 | TH3041 | Customer service leadership skills and customer relationship management  | DeFazio, Vincent James     | Doctoral in Management | 2003 | University of Phoenix                | 3711.40 |
| 117 | TH3042 | Examination of the relationship between leadership style and empowerment   | Seaborne, Wendell          | PhD                    | 2003 | Regent University                    | 3711.40 |
| 118 | TH321  | Investigation of the Dynamics and Control of A Well Stirred Combustor  | Crowl, Daniel Adams        | PhD                    | 1975 | University of Illinois               | 180.55  |
| 119 | TH322  | Experimental reactor studies of the catalytic reduction of sulphur dioxide by carbon monoxide                                      | Aderhold, James Lewis      | PhD                    | 1975 | University of Massachusetts          | 180.55  |

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|-----|--------|---|---------------------------|-------|------|------------------------------------|---------|
| 120 | TH323  | Examination of the mechanism for heat transfer in the evaporator zone of the heat pipe  | Winston, Hubert. Melvin.  | PhD   | 1975 | North Carolina State University    | 180.55  |
| 121 | TH324  | Monte Carlo estimation in complex optimization problems   | Klein, Stanley Alan       | Sc.D. | 1975 | The George Washington University   | 180.55  |
| 122 | TH3261 | Mathematical modelling of premixed laminar methane-air flames   | Kwan, Ka Chun             | PhD   | 1994 | University of Leeds                | 6186.50 |
| 123 | TH377  | Active control of a boring bar operation  | Klein, Richard Grant      | PhD   | 1973 | Purdue University                  | 246.40  |
| 124 | TH378  | Digital computer simulation and analysis of a tropospheric Scattering channel model utilizing realistic meteorological structure and parameters | Pittle, Ronald David      | PhD   | 1969 | University of Wisconsin            | 174.80  |
| 125 | TH379  | Analysing smooth flowcharts teaching structured programming in a computer-based education environment   | Hyde, Daniel Clair        | PhD   | 1975 | University of Illinois             | 180.55  |
| 126 | TH380  | Techniques for Parallel Computer Design   | Budnik, Paul Peter        | PhD   | 1975 | University of Illinois             | 180.55  |
| 127 | TH381  | Some basic determinants of computer programming performance   | Chrysler, Earl.           | D.B.A | 1975 | University of Southern California  | 180.55  |
| 128 | TH384  | Anisotropic turbulence and stochastic arrays of three-dimensional scatters  | Duvoisin, Paul Frank      | PhD   | 1969 | University of Wisconsin            | 174.80  |
| 129 | TH386  | Direct search mathematical programming algorithm  | Moradi, Jacob Yaghoub     | M.Sc. | 1974 | Newark College of Engineering      | 33.75   |
| 130 | TH388  | Response of nonlinear systems to stochastic excitation  | Payne, Harold James       | PhD   | 1967 | California Institute of Technology | 186.48  |
| 131 | TH419  | Analysis of stiffened plates by the finite element method   | Mcbean, Robert Parker     | PhD   | 1968 | Stanford University                | 173.65  |
| 132 | TH420  | Fault detecting computer system design  | Pembamoto, Kiluba Na-Beya | PhD   | 1975 | State University of New York       | 184.00  |
| 133 | TH421  | Conduction heat transfer with phase change and its applications to freezing or thawing of foods   | Bakal, Abraham Itshak     | PhD   | 1970 | Rutgers University                 | 173.65  |
| 134 | TH422  | Dynamics of mechanisms with elastic links   | Winfrey, Richard Cameron  | PhD   | 1969 | University of California           | 174.80  |

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|-----|-------|---|-------------------------------|-----|------|----------------------------------|--------|
| 135 | TH423 | Computer storage hierarchy models and analysis  | Mortenson, John Albert        | PhD | 1976 | Standford University             | 184.00 |
| 136 | TH424 | Implicitly adaptive model reference control design for linear multi - Input multi-output systems      | Mabius, Lawrence Eugene       | PhD | 1976 | Rensselaer Polytechnic Institute | 184.00 |
| 137 | TH425 | Compressibility characteristics of submarine sediments and settlement estimation for ocean structures | Callender, Warren Gordon      | PhD | 1973 | Georgia Institute of Technology  | 177.10 |
| 138 | TH426 | Experimental investigation of pipeline stability in very soft clay                                    | Lim, Sung Joo                 | PhD | 1974 | University of Houston            | 180.55 |
| 139 | TH427 | Strength and stress-strain behaviour of deep ocean carbonate soils                                    | Demars, Kenneth Roland        | PhD | 1975 | University of Rhode Island       | 180.55 |
| 140 | TH428 | Suspension bridges subjected to earthquake excitations  | Arikan, Metin Sait            | PhD | 1976 | University of California         | 184.00 |
| 141 | TH429 | Inelastic cyclic behaviour of reinforced concrete columns   | Atalay, Mehmet Bilgin         | PhD | 1976 | University of California         | 184.00 |
| 142 | TH430 | Analysis of underground excavations and their support systems   | Elias, Ghanem                 | PhD | 1976 | University of California         | 184.00 |
| 143 | TH431 | Substructure method for earthquake analysis of structures-soil interaction                            | Gutierrez, Jorge Alberto      | PhD | 1976 | University of California         | 184.00 |
| 144 | TH432 | Coupled lateral torsional response of building to ground shaking                                      | Kan, Christopher Lap-Hin      | PhD | 1976 | University of California         | 184.00 |
| 145 | TH433 | Earthquake analysis of arch dam foundation system   | Mojtahedi, Soheil             | PhD | 1976 | University of California         | 184.00 |
| 146 | TH434 | Non- linear transient dynamic analysis of yielding structures   | Ozdemir, Haluk                | PhD | 1976 | University of California         | 184.00 |
| 147 | TH435 | Nonlinear analysis of pile supported plane frames   | Dhanasobhon, Chitsanti        | PhD | 1976 | Oklahoma State University        | 184.00 |
| 148 | TH436 | Method of analysis for nonlinear dynamic response of prestressed concrete beams                       | Lakshmi Kanthan, Ramachandran | PhD | 1976 | Oklahoma State University        | 184.00 |
| 149 | TH437 | Behaviour of inelastic multistorey structures subjected to 2-D earthquakes                            | Oster, Kenneth Byron          | PhD | 1976 | University of Missouri           | 184.00 |

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|-----|-------|--|---|-------------------------|------|---------------------------------------|--------|
| 150 | TH438 | Nonlinear static and dynamic analysis of frames  | Kassimali, Aslam                              | PhD                     | 1976 | University of Missouri                | 184.00 |
| 151 | TH439 | Response of partially filled elastic cylindrical storage tank subjected to arbitrary lateral base excitation             | Mouzakis, Timoleon                            | PhD                     | 1976 | University of Massachusetts           | 184.00 |
| 152 | TH44  | Tellegen's theorem   | Penfield, Paul, Robert Spencet and S. Duinker | Internal Memorandum 153 | 1968 | Massachusetts Institute of Technology | 0      |
| 153 | TH440 | Advanced integrated circuit technology for micropower integrated circuits  | Rodgers, Thurman John                         | PhD                     | 1975 | Stanford University                   | 180.55 |
| 154 | TH441 | Characterization of nylon 66-poly (Ethylene glycol) blend fibres   | Bhat, Gulgunji Ramachandra                    | PhD                     | 1974 | North Carolina State University       | 180.55 |
| 155 | TH465 | Stationary random response of multidegree of freedom systems   | Yang, I-Min                                   | PhD                     | 1970 | California Institute of Technology    | 186.48 |
| 156 | TH466 | On the design of one-dimensional and two-dimensional fir digital filters   | McClellan, James Harold                       | PhD                     | 1973 | Rice University                       | 246.40 |
| 157 | TH467 | Heat and mass transfer in semiporous channels  | Massey, William Moore                         | PhD                     | 1968 | Georgia Institute of Technology       | 0      |
| 158 | TH469 | Measurement of thermal conductivity of beef  | Miller, Herbert and Evanston, Illinois        | M.Sc.                   | 1962 | Northwestern University               | 0      |
| 159 | TH470 | Interactive optimization component for solving parameter estimation and policy decision problems in large dynamic models | Buchner, Marcus Robert                        | PhD                     | 1975 | Michigan state university             | 251.20 |
| 160 | TH471 | Charge motion in the variable threshold memory transistor  | Crain, David Wilson                           | PhD                     | 1976 | University of Southern California     | 168.00 |
| 161 | TH472 | Elastohydrodynamic lubrication: transient finite element analysis  | Day, Chia Peng                                | M.Sc.                   | 1974 | Cornell University                    | 199.39 |
| 162 | TH474 | Design and development of a high-speed spark ignition two cycle engine   | Johnston, M.B.                                | PhD                     | 1969 | Queen`s University of Belfast         | 0      |
| 163 | TH475 | Collocation method for boundary value problems using spline functions.   | Ito, Teisuke                                  | PhD                     | 1972 | Brown University                      | 248.49 |
| 164 | TH476 | Monolithic acoustic surface wave amplifier   | Coldren, Lancy Allen.                         | PhD                     | 1972 | Stanford University                   | 180.72 |
| 165 | TH477 | Study of lateral nonuniformities and   | Chang, Ching-Chu                              | PhD                     | 1976 | Princeton University                  | 192.00 |

|     |       |   |                              |     |      |                                 |        |
|-----|-------|---|------------------------------|-----|------|---------------------------------|--------|
|     |       | interface states in MIS structures  |                              |     |      |                                 |        |
| 166 | TH478 | Acoustic wave semiconductor convolver applied to electrical and optical signal processing                   | Gautier, Herve Pierre Renson | PhD | 1975 | Stanford University             | 0      |
| 167 | TH479 | Investigations on Zinc Telluride  | Baker, Wilford Dean          | PhD | 1971 | Carnegie Mellon University      | 181.44 |
| 168 | TH481 | Non-linear viscoelasticity of polyimide fibers  | Ko Frank Koon-fun            | PhD | 1970 | Georgia Institute of Technology | 206.67 |
| 169 | TH482 | Properties and microstructure of polycarbonate-polysulfone blends   | Myers, Floyd Spencer         | PhD | 1971 | North-Western University        | 188.24 |
| 170 | TH483 | Compatibility in polymer blends   | Brodsky, Philip Hyman        | PhD | 1969 | Cornell University              | 189.24 |
| 171 | TH484 | High field transport in silicon dioxide films on silicon induced by corona charging                         | Weinbegz, Zeev A.            | PhD | 1974 | Princeton University            | 0      |
| 172 | TH485 | Improved analysis of the transient response of an MOS-C   | Takino, Takanori             | PhD | 1976 | University of California        | 0      |
| 173 | TH486 | Tractor cab suspension performance modeling   | Roley, Daniel Gay            | PhD | 1975 | University of California        | 0      |
| 174 | TH487 | Study of the effects of low energy electron irradiation on MOS capacitors                                   | Shih, Chin-Tay               | PhD | 1975 | Princeton University            | 0      |
| 175 | TH488 | Complementary MOS transistors in micropower circuits  | Swanson, Richard Marker      | PhD | 1974 | Stanford University             | 0      |
| 176 | TH489 | Solar building energy use analysis  | Ucar, Manas                  | PhD | 1976 | Syracuse University             | 0      |
| 177 | TH490 | Analysis of the transient natural convection from horizontal circular cylinder                              | Hsu, John Cheu-Wang          | PhD | 1977 | North Carolina State University | 0      |
| 178 | TH491 | Generalized approach to thermodynamic cycles analysis   | Henry, Charles Daniel        | PhD | 1977 | University of Arizona           | 0      |
| 179 | TH492 | Natural convection heat-transfer from a horizontal circular cylinder to a surrounding cylindrical enclosure | Kuehn, Thomas Howard         | PhD | 1976 | University of Minnesota         | 0      |
| 180 | TH493 | Instability of natural convection flow around horizontal cylinders  | Fathalah, Kadry Ahmed Fathy  | PhD | 1976 | Georgia Institute of Technology | 0      |

|     |       |   |                            |                |           |  |         |
|-----|-------|---|----------------------------|----------------|-----------|--|---------|
| 181 | TH495 | Characterisation of nylon 66-poly(Ethylene glycol) blend fibers   | Bhat, Gulgunji Ramachandra | PhD            | 1974      | North Carolina State University                              | 0       |
| 182 | TH496 | Analysis of plate type prismatic structures   | Abu Ghazaleh, Bassam Naif  | PhD            | 1966      | University of California                                     | 0       |
| 183 | TH497 | Mechanized information retrieval from abstracts literature in chemical engineering using IBM 1620                                     | Murty, D.S.R.              | Project Report | 1969      | INSDOC   | 0       |
| 184 | TH498 | Study of secondary time effects and consolidation of clays  | Kaul, Brij Krishen         | PhD            | 1963      | University of Punjab   | 0       |
| 185 | TH501 | Relationship between fuel injection and heat release in a quiescent chamber diesel engine   | Sareen, B.K                | PhD            | 1972      | University of Manchester                                     | 813.75  |
| 186 | TH502 | Frequency domain characterization of surface acoustic wave oscillator   | Bagchi, Anandmoy           | M.Tech         | 1978      | IIT Delhi  | 0       |
| 187 | TH522 | Phase control and phase minimization in digital filters   | Burris, Frank Edward       | PhD            | 1974/1979 | University of Cincinnati                                     | 216.00  |
| 188 | TH549 | Transient analysis of multicomponent transport and reaction in the microcirculation of brain  | Null, Randal Edward        | PhD            | 1976      | Louisiana Tech University                                    | 192.00  |
| 189 | TH550 | Generation and amplification of ultrasonic layer waves  | Araghi, Medhi Najm         | PhD            | 1973      | University of Rochester                                      | 216.00  |
| 190 | TH688 | Calculation of fuel / air mixing in a diesel engine with moderate swirl for the purpose of heat release prediction                    | Abughres, Saleh Mohamed    | PhD            | 1973      | University of Manchester Institute of Science and Technology | 1057.22 |
| 191 | TH689 | Investigation of the properties of mathematical models of internal combustion engines with special reference to mixing and combustion | Williams, T.J.             | PhD            | 1976      | University of Manchester Institute of Science and Technology | 935.64  |
| 192 | TH690 | Transient performance of cross bonded cable systems   | Michael Dang, Danh, Hgoc   | PHD            | 1972      | Victoria University of Manchester                            | 830.81  |
| 193 | TH704 | Experimental study of reciprocating internal combustion engines operated on hydrogen  | Homan, Howard Stockes      | PhD            | 1978      | Cornell University   | 206.40  |

|     |       |  |                           |                |      |                                   |        |
|-----|-------|--|---------------------------|----------------|------|-----------------------------------|--------|
| 194 | TH705 | Theoretical and experimental investigation of sorption in bidisperse porous particles  | Vaidyanathan, A.S.        | PhD            | 1972 | Clarkson College of Technology    | 210.84 |
| 195 | TH706 | Elimination of dilute sulphur dioxide by macro reticular ion exchange resins using a cyclic operation in a packed bed          | Tsobanopoulos, Vasilios   | PhD            | 1973 | Carnegie Mellon University        | 260.40 |
| 196 | TH736 | Growth and characterization of Gallium-Nitride vapor phase epitaxial layers and devices  | Liu, Samuel Sheau-ming    | PhD            | 1977 | Standford University              | 232.40 |
| 197 | TH779 | Optimization of multistage heat exchange systems   | Bragin, Morey S.          | PhD            | 1966 | Polytechnic Institute of Brooklyn | 134.40 |
| 198 | TH80  | Studies on civil air transportation in India   | Dhingra, M.M.             | Project Report | 1969 | IIT Kanpur                        | 0      |
| 199 | TH82  | Vibrational characteristics of multi-storey infilled frames  | Mallick, D.V.             | PhD            | 1967 | University of Bristol             | 0      |
| 200 | TH835 | Fracture morphology of nylon 6 fibres  | Park, Joon Bu             | PhD            | 1972 | University of Utah                | 0      |
| 201 | TH836 | Molecular mechanics of polymers by dynamic infrared techniques   | Wool, Richard Patrick     | PhD            | 1974 | University of Utah                | 0      |
| 202 | TH86  | Manufacture of Hexamine from methanol  | Kalia, Kailash C.         | Project report | 1970 | IIT Delhi                         | 0      |
| 203 | TH884 | Reduction of data dependencies in high level programs  | Allan, Stephen John       | PhD            | 1979 | Iowa State University             | 0      |
| 204 | TH91  | Plane strain behaviour of soft clay  | Hambly, E.C               | PhD            | 1969 | Cambridge University              | 0      |
| 205 | TH94  | Stress-strain characteristics of Badarpur sands  | Chawla, Charanjit         | M.Tech.        | 1971 | IIT Delhi                         | 0      |
| 206 | TH958 | Investigation of some management information systems design variables and decision-making performance: A simulation Experiment | Jenkins, Arnold Milton    | PhD            | 1977 | University of Minnesota           | 351.92 |
| 207 | TH959 | Experimental investigation of the contingency model of decision strategy selection   | McAllister, Daniel Warren | PhD            | 1978 | University of Washington          | 364.64 |
| 208 | TH96  | Design of type-112 photographic objective  | Sharma, D.K.              | M.Sc.          | 1969 | University Of Tasmania            | 0      |



|              |       |   |                       |                                   |      |                          |                    |
|--------------|-------|---|-----------------------|-----------------------------------|------|--------------------------|--------------------|
|              |       | and detailed study of its properties  |                       |                                   |      |                          |                    |
| 209          | TH960 | Study of MIS design variables: decision styles and decision-aiding strategy     | Alavi, Maryam         | PhD                               | 1978 | Ohio State University    | 364.64             |
| 210          | TH961 | Decision support system in the case of price policy for rice in the Philippines | Yassour, Joseph       | Doctor of Business Administration | 1979 | Harvard University       | 381.60             |
| 211          | TH97  | Optical problems of the Ritchey Chretien Astronomical Telescope                 | Vyakaranam, M.L.N.    | M.Sc.                             | 1969 | University of Tasmania   | 0                  |
| 212          | TH991 | Operation of distributed database systems under network partitions              | Faissol, Sergio Zarur | PhD                               | 1981 | University of California | 347.52             |
| 213          | TH992 | Verification of concurrency control algorithms for distributed database systems | Hua, Cecil Tren-Min.  | PhD                               | 1981 | University of Pittsburgh | 347.52             |
| <b>Total</b> |       |   |                       |                                   |      |                          | <b>1,00,247.23</b> |