PART I
The Psychosocial Work Environment, Health, and Well-Being

1. Health, Productivity, and Work Life 1
   Health and the Psychosocial Structure of Work
   The Person and the Environment: Two Bases of Stress-Related Illness
   The Redesignable Organization of Work and Stress-Related Illness
   Productivity and the Psychosocial Structure of Work
   The Work Reconstruction Process
   Obstacles to Work Reconstruction
   The Development of Contemporary Patterns of Work Organization
   The Forces for Change I: A New Generation of Psychosocial Problems
   The Forces for Change II: A New Industrial Revolution

2. The Psychosocial Work Environment 31
   Psychological Demands and Decision Latitude: The Demand/Control Model
   High-Strain Jobs
   Active Jobs
   Low-Strain Jobs
   Passive Jobs
   Occupational Distributions of Psychosocial Job Characteristics
   A Comparison of Men's and Women's Jobs
   Historical Trends in Job Content and Industrial Development
   Findings for Psychosocial Health and Behavior with the Demand/Control Model
   Evidence for the Psychological Strain Mechanism
   Evidence for the Active Behavior Mechanism
Developing the Demand/Control Model

Decision Latitude: A Combination of Task Authority and Skill Discretion
Clarifying Control and Demand Definitions
Psychological Job Demands
The Physical Demands of Work
Distribution of Occupations by Decision Latitude and Physical Exertion

Expanding the Model: Social Support at Work and the Participatory Work Process
The Nature of Social Support at the Workplace
Distribution of Occupations by Social Support and Decision Latitude
Social Support Beyond the Work Group
Issues Affecting the Objectivity of Psychosocial Job Characteristics
Psychosocial Job Characteristics and Social Class
Psychosocial Measures and Individual Differences

Conclusion

3. The Environment, the Worker, and Illness: Psychological and Physiological Linkages

The Evolution of Stress Theories
The Basic Elements of a Stress Theory
Stress in Complex Systems: Control-System Disequilibrium

The Demand/Control Model and Other Stress and Learning Models Compared
The Strain Hypothesis
The Active Learning Hypothesis

Integrating Personality and Environmental Factors
The Integrated Model: Work Environment and Long-Term Personality Evolution
Strain Inhibits Learning
Learning Inhibits Strain
The Combined Second-Order Impacts

Job Structure and Physiological Response
Psychophysiological Linkages
Catabolic Response: Residual Strain
Anabolic Response: Regeneration and Health Promotion

Linkages to Coronary Heart Disease
Type A Behavior and Heart Disease
Does Personality Determine Career?

Conclusion

4. Psychosocial Job Characteristics and Heart Disease

A Research Tradition with Many Questions
Finding the Data to Test the Demand/Control Model
The First Test of the Demand/Control Model: Self-Reported Job Descriptions in Sweden
Linking Job Data at the Occupation Level
U.S. STUDIES WITH MEN
THE SELECTION ISSUE
CASE-CONTROL STUDIES WITH SWEDISH MEN
STUDIES WITH WOMEN
FAMILY-WORK INTERACTIONS
Results with the Expanded Model: Social Support and Physical Demands
SOCIAL SUPPORT
PHYSICALLY DEMANDING BLUE-COLLAR WORK
The Pathway to Heart Disease: Job Strain and Blood Pressure, Smoking, and Serum Cholesterol
JOB STRAIN AND BLOOD PRESSURE
JOB STRAIN AND SMOKING
JOB STRAIN AND SERUM CHOLESTEROL
SUMMARY: ALL MAJOR RISK FACTORS
The Demand/Control Model and Multiple Illnesses: The Swedish Five County Study
New and Old Research Questions Still To Be Answered
Conclusion

PART II
Health, Productivity, and the Reconstruction of Working Life
5. *Psychosocial Job Characteristics and Productivity* 161
Estimating the Economic Costs of Work-Related Stress
HEALTH COSTS
PRODUCTIVITY COSTS
Productivity and Models of Motivation, Active Learning, and Skill Utilization
WORK MOTIVATION THEORIES AND THE ACTIVE LEARNING HYPOTHESIS
USING THE DEMAND/CONTROL MODEL FOR PRODUCTIVITY ANALYSIS
UNDERUTILIZATION OF SKILLS
Health and Productivity Outcomes of Quality of Work Life Job Redesign Projects
New Skill-Oriented Measures of Productivity
A NEW OUTPUT MODEL: NEW VALUE
CASE STUDY 1: THE ENSKEDALEN ELDERLY HOME
CASE STUDY 2: MARTLAND HOSPITAL DIABETES CLINIC
Conclusion
6. Integrating Worker Health Analysis and Job Redesign

Conventional Medicine and Knowledge of the Workplace
A Health-Oriented Job Design Process
INTEGRATING PROFESSIONAL ROLES: THE JOB DESIGN/HEALTH PROMOTION TEAM
THE FOUR STAGES OF PSYCHOSOCIAL WORK DESIGN
A Study Using Job-Related Health Monitoring Feedback
FEEDBACK AT THE INDIVIDUAL LEVEL
GROUP FEEDBACK AND THE EVOLVING AWARENESS OF A NEW JOB STRUCTURE
OTHER EVIDENCE ON THE EFFECTIVENESS OF GROUP FEEDBACK PROCESSES
Practical Issues in the Monitoring and Feedback of Health Data
ESTABLISHING THE GROUND RULES
THE POTENTIAL FOR MISUSE OF INFORMATION
OVER- AND UNDERREPORTING
HEALTH AND OTHER PRIORITIES
INDIVIDUAL VERSUS COLLECTIVE APPROACHES TO JOB CHANGE
Institutional Support for the Redesign Process
THE PUBLIC-SECTOR OCCUPATIONAL HEALTH TEAM
THE INDEPENDENT OCCUPATIONAL HEALTH TEAM
THE COMPANY-EMPLOYED OCCUPATIONAL HEALTH TEAM
The Status of the Expanded Demand/Control Model: Multiple-Level Process Linking the Psychosocial Work Environment, Health, and Productivity
Conclusion

7. The Organizational Context of Job Redesign for Health and Productivity

The Importance of Support for New Distributions of Authority and Skill
JOB REDESIGN AT VOLVO
RESTRUCTURING HOME CARE FOR THE ELDERLY
OBTAINING THE "CRITICAL ORGANIZATIONAL MASS"
SOURCES OF SUPPORT: UNIONS AND OTHER EMPLOYEE INTEREST GROUPS
THE LONG-TERM COSTS OF SHORT-TERM MANAGEMENT STRATEGIES
Organizational Learning and the Impact of Change Stress
THE ORGANIZATIONAL CONTEXT OF INDIVIDUAL LEARNING
ORGANIZATIONAL LEARNING IN TIMES OF STRESS
BUILDING THE LEARNING-BASED ORGANIZATION
Room to Grow: New Linkages to the Market
Conclusion
8. The Technological Context of Job Redesign 251
   Socio-Technical Design in Manufacturing Automation
   Computer-Based Technological Change and Job Design
   Authority, Skill Allocation, and the Impact of Computer-Based Technologies
   New Forms of Constraint and Psychological Job Demands
   The Computer-Mediated Social Integration of the Workplace
   Data Abstraction: The Latest Stage in the Division of Labor
   Computer Automation and Job Insecurity
   Conclusion

   Occupational Categories Relevant to Job Redesign Strategies
   Job Redesign Strategies: An Interoccupational Perspective
   The New Craftsman's Job
   Job Redesign Strategies for the New Value-Disadvantaged in the Services
   Redistributing Creative Opportunities Beyond the New Value Elite
   Moderating the Impacts of New Technologies
   The Rigidity of Occupational Boundaries
   Industrial Relations Strategies in Transition
   Conclusion

10. Jobs of the Future and the Global Economy 302
    The Macro-Level Costs of Modern Production Organization
    Industrialization and Heart Disease
    Job Insecurity in the Market Economy
    The Effects of the Global Marketplace
    Worker-Friendly Jobs in the Future Psychosocial Work Environment
    Humane Jobs for Air Traffic Controllers
    Creative Jobs for High-Technology Craftsman in a Manufacturing Network
    The New/Old Health Service Worker with Reestablished Client Interactions
    Conclusion: Future Choice and Political Challenge in a Time of Transition
    Speculations I: The Social Contexts of the New Good Jobs
    Speculations II: The Social Contexts of Bad Jobs
    How Shall We Make the Choice?
Appendix: Statistical Validity of Psychosocial Work Dimensions in the U.S. Quality of Employment Surveys 335

The Job Characteristic Data Surveys: The U.S. Quality of Employment Surveys Revised 1970 U.S. Census Occupational Classification System
Statistical Reliability of the Scales
  BETWEEN-OCUPATION VARIANCE: THE JOB VERSUS THE INDIVIDUAL AS CAUSE
  ACCURACY OF JOB CHARACTERISTIC SCORES FOR CENSUS OCCUPATION CODES ON THE PLOTS

Individual Scale Validity
  DECISION LATITUDE
  PSYCHOLOGICAL DEMANDS
  JOB INSECURITY
  PHYSICAL EXERTION
  HAZARDOUS EXPOSURE
  SOCIAL SUPPORT

The Job Content Questionnaire

References 347
Index 373