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NUCLEAR POWER'S ROLE IN GENERATING ELECTRICITY -- CONTENTS --
PREFACE -- SUMMARY AND INTRODUCTION -- BACKGROUND ON
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UNDERLYING FUTURE INVESTMENT IN POWER PLANTS -- HOW MIGHT CARBON DIOXIDE CHARGES AFFECT THE PROSPECTS OF INVESTMENT IN NEW NUCLEAR PLANTS? -- HOW DOES THE ENERGY POLICY ACT OF 2005 AFFECT THE PROSPECTS OF INVESTMENT IN NEW NUCLEAR PLANTS? -- UNCERTAINTIES POSED BY FUTURE MARKET CONDITIONS AND THE POSSIBILITY OF CARBON DIOXIDE CONSTRAINTS -- Costs under Alternative Market Conditions -- Cost of Fuel -- Cost of Construction -- Cost of Financing -- Costs under Carbon Dioxide Constraints -- ENDNOTES -- FRAMING THE ANALYSIS: BASE-CASE ASSUMPTIONS AND THE EFFECTS OF POLICY -- Levelized Cost Analysis -- BASE-CASE ASSUMPTIONS -- Construction Costs -- Financing Costs -- Fuel Costs -- Additional Assumptions -- ACCOUNTING FOR THE EFFECTS OF POLICY -- ACCOUNTING FOR THE EFFECTS OF CARBON DIOXIDE CHARGES -- ACCOUNTING FOR THE EFFECTS OF ENERGY POLICY ACT INCENTIVES -- Research and Development Incentives -- Investment Incentives -- Production Incentives -- ENDNOTES -- RESULTS AND IMPLICATIONS OF THE ANALYSIS -- THE OUTLOOK FOR INVESTMENT IN THE ABSENCE OF CARBON DIOXIDE CHARGES AND EPACT INCENTIVES -- THE OUTLOOK FOR INVESTMENT UNDER CARBON DIOXIDE CHARGES -- Would Nuclear Technology Be the Choice for Expanding Capacity? -- Would New Nuclear Plants Replace any Existing Coal Capacity? -- THE OUTLOOK FOR INVESTMENT UNDER THE ENERGY POLICY ACT OF 2005 -- Projects Receiving the Maximum Benefits under EPACT -- Production Tax Credits -- Loan Guarantees -- INCENTIVES AND IMPEDIMENTS AT THE STATE AND LOCAL LEVELS -- FUTURE MARKET AND POLICY UNCERTAINTIES -- Costs under Alternative Market Conditions -- Construction Costs -- Fuel Costs. Financing Costs -- Costs under Prospective Carbon Dioxide Constraints -- ENDNOTES -- INDEX.

Sommario/riassunto

This new book is dedicated to outstanding research in nanotechnology which is a "catch-all" description of activities at the level of atoms and molecules that have applications in the real world. A nanometer is a billionth of a meter, about 1/80,000 of the diameter of a human hair, or 10 times the diameter of a hydrogen atom. Nanotechnology is now used in precision engineering, new materials development as well as in electronics; electromechanical systems as well as mainstream biomedical applications in areas such as gene therapy, drug delivery and novel drug discovery techniques.
