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Nota di contenuto Chapter 1. Growth of IIM and Metallurgy in India during Last 75 Years

-- Part 1: Industry -- Chapter 2. Research and Development in Tata Steel – The Past, the Present and the Future -- Chapter 3. WIL's Contribution in development of welding for exotic materials -- Chapter 4. Mukand - Quality leadership in Stainless steel, and Special & Alloy steel -- Chapter 5. History of Indian Rare Earths Limited -- Chapter 6. The DASTUR Story -- Chapter 7. Hindalco's Journey over a Period of Six Decades: Making the World Greener – Stronger – Smarter -- Chapter 8. MECON's Journey of Six Decades - A Saga of Engineering Excellence in Iron and Steel -- Chapter 9. BALCO's Journey: A Story of Growth, Determination, and Transformation -- Chapter 10. JSW Steel - Journey with Speed & Innovation -- Part 2: Research & Development Organisation -- Chapter 11. Seven decades of metallurgical excellence – CSIR-NML -- Chapter 12. Molten Salt Electrowinning of Metals and

Materials: Opportunities and Challenges -- Chapter 13. Contribution of Bhabha Atomic Research Centre to the "Metals Journey of India --

Sommario/riassunto

Chapter 14. Galvanizing Industry in India - Past, Present & Future -- Chapter 15. Lead Recycling in India - Imperative need for Affirmative Actions. etc.

The book marks the Platinum Jubilee of the Indian Institute of Metals. closely matching independent India's age. It is envisaged as a compilation of technical articles tracing the birth and growth trajectory of metallurgical science, engineering and technology in the nation, attempting a degree of prognostication covering the next quarter of a century. It contains the essence of the metallurgical research and development and industrial progress India has witnessed in the last 75 years. This book comprises technical articles written by industry leaders and eminent technocrats. It includes overviews by distinguished researchers who have strived to build foundations of new metallurgical research and engineering fields. It includes learned writings of persons associated with premier institutions heavily dependent on metallurgy and materials. They have made seminal contributions by nurturing the growth of metallurgical research and industrial production or have made first-hand contributions to building the great organisations we have today. Coinciding with the Platinum Jubilee year of the Indian Institute of Metals, this book brings out the enormous efforts of these individuals representing their organisations to share insights that led to their success as an entity. Similarly, several professionals who significantly contributed to the understanding of metallurgical engineering, have held important positions and steered the national strategic programmes or academically nurtured students in their illustrious careers also share their journey in this book. This book chronicles the significant advances made in the field of metallurgical science, engineering and technology in India, presenting the historical perspective and prospects in the format of a technical volume.