

Printing Technology

Modern Printing Technology

Author: NIIR Board

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Printing is one of those inventions that have revolutionized our world and is the most important fundamental practices in our society. Nothing is more essential to civilization intellectually or commercially, than printing. Printing is widely used in our society to pass on information and to decorate objects. Printing is a process for reproducing text and images, typically with ink on paper using a printing press. It is often carried out as a large scale industrial process, and is an essential part of publishing and transaction printing. There are various types of printing methods such as screen printing, offset printing, rotogravure printing etc. Offset printing is a widely used printing technique where the inked image is transferred (or offset) from a plate to a rubber blanket, then to the printing surface. There is an enormous growth being witnessed in the printing industry. The emergence of the retail revolution and growing education across the country is acting as a fuel to the growth of the printing industry. The Indian Printing Industry is well established and presently growing at 12% per annum. This book provides you details about the various methods and techniques involves in modern printing technology. Some of the fundamentals of the book are multi colours, paper publishing unit, screen printing, offset printing press, rotogravure printing, desk top publishing, computer forms and security printing press, printing inks, ink for hot stamping foil, aluminium printing plate for offset printing machine, screen printing on cotton, polyester and acrylics. The book also covers process, project profiles of different types of printings and printing inks manufacturing along with sources of machinery and raw materials. The book provides you with comprehensive information on modern printing technology. Basic information in entering a market and the opportunities and requirements of the potential sector has been the best way to penetrate in a market. How and what if properly answered can take you to a long way. The first hand information on different types of modern printing technology has been properly dealt in the book and can be very resourceful for those looking for entrepreneurship opportunity in this sector.

Handbook on Printing Technology (Offset, Flexo, Gravure, Screen, Digital, 3D Printing) 3rd Revised Edition

Author: NIIR Board of Consultants & Engineers

Format: Paperback

Book Code: NI73

Pages: 568

ISBN: 9788178331768

Price: Rs. 1,495.00 US\$ 150.00



Printing is a process of producing copies of text and pictures. Modern technology is radically changing the way publications are printed, inventoried and distributed. There are a wide variety of technologies that are used to print stuff. The main industrial printing processes are: Offset Lithography, Flexography, Digital Printing (Inkjet & Xerography), Gravure, Screen Printing. 3D printing which is also referred as additive printing technology that enables manufacturers to develop objects using a digital file and variety of printing materials. Global market for 3D printing material include polymers, metals and ceramics. In addition, 3D printing offers a wide array of applications in various industries, namely consumer products, industrial products, defense & aerospace, automotive, healthcare, education & research and others. In India, the market for printing technology is at its nascent stage; however offers huge growth opportunities in the coming years. Digital printing is now taking much more share, particularly in graphics (i.e. non-packaging applications). Digital's share of the whole market doubles in constant value terms from 9.5% to 19.7% and 3D printing market is estimated to garner \$8.6 billion in coming years. This handbook is designed for use by everyone engaged in the printing section and students who are pursuing their career in printing technology. It provide all information on modern printing methods, techniques, testing's for printing, application of different printing and machinery used for printing. The major content of the book are Principles of Contact (Impression), Principles of Noncontact Printing, Coated Grades and Commercial Printing, Tests for Gravure Printing, Tests for Letterpress Printing, Tests for Offset Printing, Screen Printing, Application of Screen Printing, Offset Lithography, Planography, Materials, Tools and Equipments, Sheetfed Offset Machines, Web Offset Machines, Colour and its Reproduction, Quality Control in Printing, Flexography, Rotogravure, Creative Frees Printer, Shaftless Spearheads Expansion, Digital Printing, 3D Printing, 3D Printing Machinery and Photographs of Machinery with Suppliers Contact Details. This book will be a mile stone for its readers who are new to this sector, will also find useful for professionals, entrepreneurs, those studying and researching in this important area.

[The Complete Book on Printing Technology](#)

Author: NIIR Board

Format: Paperback

Book Code: NI111

Pages: 742

ISBN: 8178330520

Price: Rs. 1,100.00 **US\$** 125.00



Printing Industry generates a wide range of products which require in every step of our everyday life. Starting from newspapers, magazines, books, post cards to memo pads and business order forms each are the products of printing industry. Printing is a process for reproducing text and image, typically with ink on paper using a printing press. There are various types of printing process for example offset printing, modern printing, gravure printing, flexographic printing etc. Offset printing is a widely used printing technique where the inked image is transferred from a plate to a rubber blanket, then to the printing surface. When used in combination with the lithographic process, the offset technique employs a flat image carrier on which the image to be printed obtains ink from ink rollers, while the non printing area attracts a film of water, keeping the non printing areas ink free. Gravure printing is a printing technique, where the image to be printed is made up of small depressions in the surface of the printing plate. It is divided into three broad product areas; packaging printing, publication printing and speciality printing. Printing technology is often carried out as a large scale industrial process, and is an essential part of publishing and transaction printing. This is the age of hi fi, jets and computers. Rapid advancements in science and technology have made their impact on the printing industry of the world too. The old techniques of printing have become obsolete and made way for the new technology. The printing industry is just one example of an entire industry movement that is changing while keeping up with the development of new technologies. The proliferation of emerging technologies has dictated a rebirth of the printing industry. The Indian Printing Industry is well established and presently growing at 12% per annum. This book majorly deals with typographic technology, photo scanning systems, sequence of steps in the printing processes, size and scope of the printing industry, high volume printing technologies for the production of polymer electronic structures, inking system, film high contrast printing, principle of planographic printing, modern printing process, ink jet etc. The book contains the latest printing processes like web, gravure, flexo, security and offset printing. This book is an invaluable resource for new entrants, technicians, craftsmen and executives working with printing industries.

[Screen Printing Technology Hand Book](#)

Author: NIIR Board

Format: Paperback

Book Code: NI112

Pages: 672

ISBN: 8178330539

Price: Rs. 1,000.00 US\$ 100.00



Screen printing is a printing technique that uses a woven mesh to support an ink blocking stencil. The attached stencil forms open areas of mesh that transfer ink or other printable materials which can be pressed through the mesh as a sharp edged image onto a substrate. A roller or squeegee is moved across the screen stencil, forcing or pumping ink past the threads of the woven mesh in the open areas. Screen printing proves to be a good printing process for multi colour printing. Half tone printing is related to screen printing of photographs. Printings of photographs was at one time considered to be very difficult in screen printing, but now screen printed halftone photographs are also effective and economical in certain types of reproduction. Over the time stickers (transfer) have become an important medium of advertising. Now millions of stickers are printed every year through this method. Transfer stickers are of three types; instant transfer, heat transfer and water lade transfer. Gumming is an integral part of sticker production. Screen printing technique make use of and is compatible with a variety of materials, including textiles, ceramics, metal, wood, paper, glass, and plastic. It is this quality that allows this printing technique to be used in different industries, from clothing to product labels, fabric labels to circuit board printing etc. Screen printing industry experiences growth in the 10 to 15% per year rate. Some fundamentals of this book are basic concept and classification of stencils, basic screen printing process, basic registration techniques, screen printing frames, pre treatment of screen printing fabrics, screen printing press, principal of screen process printing, printing on paper and card, printing on vertical surfaces, printing on shaped objects, cylindrical object printing, printing on uneven surfaces, ceramic and glass printing, printing on plastics etc. This method of Printing has achieved wide spread popularity since the Second World War, although the basic ideas in this process were used by the Chinese centuries ago. The present book contains latest technologies of screen printing along with machinery photographs, addresses of suppliers of machinery and raw materials. This book will be very helpful to new entrepreneurs, existing units and for those who want to diversify in to this field.

[**Directory/ Database/ List of Printing Industries/ Companies in India \(Printing Press, Pre Press, Printing Ink, Printing Materials, Printing Machinery etc.\) 3rd Edition**](#)

Format: CD-Rom

Book Code: NID65

Price: Rs. 3,599.00 **US\$** 150.00



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Format: MS Excel

About NIIR

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