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	Autore	Barla, Giovanni
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	Nota di contenuto	Volume 1 -- pt. 1. General -- Basic aspects of organic synthesis with transition metals / Barry M. Trost -- Concepts for the use of transition metals in industrial fine chemical synthesis / Wilhelm Keim -- pt. 2.

Transition metal-catalyzed reactions -- New opportunities in hydroformylation: selected syntheses of intermediates and fine chemicals / Carlo Botteghi -- Hydrocarboxylation and hydroesterification reactions catalyzed by transition metal complexes / Bassam El Ali -- Palladium-catalyzed carbonylation of allylic and propargylic compounds / Jiro Tsuji -- Amidocarbonylation / Klaus Kuhlein -- Transition metal-catalyzed alkene and alkyne hydrocyanations / Albert L. Casalnuovo -- Cyclopropanation / Andreas Pfaltz -- Cyclomerization of alkynes / Helmut Bonnemann -- Intramolecular hydroacylation and reductive cyclization / William E. Crowe -- Isomerization of olefin and the related reactions / Sei Otsuka -- Transition metal-catalyzed cross coupling reactions / Holger Geissler -- Transition metal-catalyzed C-N and C-O bond-forming reactions / Matthias Beller -- Catalytic enantioselective alkylation of alkenes by chiral metallocenes / Amir H. Hoveyda -- Palladium-catalyzed olefinations of aryl halides (Heck reactions) and related transformations / M. Beller -- Coupling reactions involving CH activation / Gerald Dyker -- Palladium-catalyzed allylic substitutions / Andreas Heumann -- Palladium-catalyzed cyclization of allylic acetates with alkenes and allenes / Takashi Takahashi -- Application of olefin metathesis / Matthias Schuster -- Homometallic lanthanoids in synthesis: lanthanide triflate-catalyzed synthetic reactions / Shu Kobayashi -- Heterometallic lanthanoids in organic synthesis / Masakatsu Shibasaki -- Metal-catalyzed addition of cyanides to aldehydes / Nobuki Oguni -- pt. 3. Transition metal-mediated reactions -- Fischer-type carbene complexes / Karl Heinz Dotz -- Titanium-carbene mediated reactions / Nicos A. Petasis -- The McMurray reaction and related transformations / Alois Furstner -- Vanadium mediated couplings / Heiner Jendralla -- Chromium(II)-mediated C-C coupling reactions / David M. Hodgson -- Samarium-mediated reactions / Xin Gu -- Manganese(III)-based oxidative free-radical cyclizations / Barry B. Snider -- Titanium-mediated reactions / Rudolf O. Duthaler -- Zinc-mediated reactions / Paul Knochel -- Conjugate addition reactions / Alexandre Alexakis -- Carbometallation reactions / Ilane Marek -- Iron Acyl complexes / Karola Ruck-Braun -- Iron-diene complexes / Hans-Joachim Knolker -- Chromium-arene complexes / Hans-Gunther Schmalz -- Pauson-Khand reactions / N. Jeong . Volume 2 -- pt. 1. Reductions -- Homogeneous hydrogenations / Armin Börner -- Heterogeneous hydrogenation: a valuable tool for the synthetic chemist / H.U. Blaser -- Transferhydrogenations / Serafino Gladiali -- Hydrosilylations / Keiji Yamamoto -- Metal-catalyzed hydroboration reactions / Gregory C. Fu -- The reduction of imines and enamines with transition metal hydrides / Bakthan Singaram -- pt. 2. Oxidations -- Basics of oxidations / Karl Anker Jørgensen -- Carbon-hydrogen bond oxidations catalyzed by transition metal complexes / Bernard Meunier -- Allylic oxidations -- Metal-catalyzed Baeyer-Villiger reactions / Carsten Bolm -- Asymmetric dihydroxylation / Hartmuth C. Kolb -- Asymmetric aminohydroxylation / Hartmuth C. Kolb -- Epoxidations -- Wacker oxidations / Ben L. Feringa -- Hydroamination of alkenes and alkynes / Thomas E. Müller -- Heteropolyanions for organic synthesis / Ronny Neumann -- Rhenium-catalyzed epoxidations / R.W. Fischer -- Aerobic, metal-catalyzed oxidation of alcohols / Istvan E. Marko -- Oxidations of heteroatoms -- pt. 3. Special topics -- Supported transition metals catalysis / J.M. Basset -- Transition metals for fine chemicals and organic synthesis, two-phase catalysis / D. Sinou -- Transition metals in photocatalysis / H. Hennig -- Transition metals in radiation induced reactions for organic synthesis: applications of

ultrasound / Dietmar Peters -- Applications of microwaves / Jurgen Herwig -- Application of high pressure in catalysis / Oliver Reiser.

Sommario/riassunto

This two volume set presents contemporary research and application in the economically and scientifically important area of transition metals for organic synthesis and fine chemicals production.
